Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.





Introduction

THE wonderful new strains of Kunderd Gladioli are now so well known and so world wide has become their popularity that I need not give you a long story about them in this catalog. As you read the strong testimonials further on in this catalog you must realize that only superior merit can earn and acquire such great praise. Many of my best patrons are the most prominent people in the world, who know and want only the very best, and these people are continually sending me the names of their friends and, it is this praise backed by the very highest quality which has built up the very large and growing patronage which these "new creations" now enjoy. Eleven of the thirty wealthiest people in the United States are my regular annual customers. This is no small achievement. As all know who are familiar with Gladioli there were no ruffled strains of Gladioli in existence until my origin of these remarkable new forms. Thousands of fine new varieties are continually appearing on my trial grounds and the best of these will be added to my lists from year to year, so, that each season you can secure some new delights to beautify your floral gardens. Not only have the ruffled varieties been originated on my grounds, but many of the most beautiful plain petaled kinds such as Mrs. Frank Pendleton, Mrs. Dr. Norton, Mary Pickford, etc., from the same ancestry. Indian Summer, Autumn, etc., are closely related to the same lines of development, and within another year or so I shall offer an entirely new and beautifully lacinated type. Other remarkable new forms are yet to appear to extend still further the marvelous beauty of this remarkable flower in years to come. I make no claims not fully justified by the merits of these "new creations" and I know my customers will bear me out in all I say. The extraordinary novelty of these strains has placed them in a class by themselves and they easily surpass all others.

Tell your friends of these beautiful new Gladioli and help them secure something grand, something way out of the ordinary, and by far the finest Gladioli in the world.

ORR BROTHERS, HORTICULTURISTS, NEW ZEALAND, New Zealand, 15th October, 192

New Zealand, 15th October, 1921.

We very much regret to hear that you have discontinued shipping to points south of the Equator and would beg of you kindly to reconsider your determination in this respect. It will be a great deprivation to us indeed to no longer have your beautiful creations. We have had Gladioli from all parts of the World, but there are none to compare with yours. Please let us hear from you. Kindly send us your future Catalogs and we will be pleased to pay for same.

Entire catalog, including illustrations, copyrighted 1921 by A. E. Kunderd.

© C1 A 631771



GLADIOLUS "KUNDERDII GLORY"

This is the first Ruffled Gladiolus, scientifically produced, ever sent out. It is a beautiful creamy apricot with pinkish tint on outer edges of petals and has fine red feathered markings in the throat. With special culture has been grown to six feet in height. It has received many certificates and awards. We give it first place, as it is the parent of many new ruffled varieties. "Kunderdii Glory" was at first sold at \$1.00 each, but in the hands of a skillful breeder was easily worth a thousand dollars. It is now well known all over the world and generally sells for about 10 cents. Used by other breeders to produce their ruffled varieties.

Why I Catalog Only My Own Productions

OT only the Ruffled varieties offered in this catalog have been originated by me but also many of the best of those of plain Petaled type and the infusion of the blood of these new strains has brought about a great step in advance in Gladioli improvement all over the world. Naturally as the originator of such superior types it has been my greatest endeavor to not only continue to improve but to lead in further advance and superiority in this the work of a life time, and the variety, beauty and quality of the lists I am offering by far surpass any others. Many of my varieties are now to be found in the best lists of the leading Gladioli growers and seedsmen, but of many of them the stocks are somewhat limited, so that most of them as yet can be generally obtained only from me direct.

This season again I am offering a small selection of the choicest and most distinct new varieties in both Ruffled and Plain Petaled, in large flowered and Primulinus types. The Primulinus types offered in this catalog are, many of them, almost the equal in size of the older large flowering kind. I am also adding thousands of magnificent new varieties to my various mixtures offered on page 36, and am sure no other mixtures offered anywhere in the world can near approach these. As now prepared for my 1922 patrons, these mixtures are the equal of anything which might be prepared from a mingling of the very best named from elsewhere from all over the world. Try these magnificent new blendings and you will agree with me that their highest praise is well deserved. From the above you will readily see that it is only necessary to catalog my own productions in order to afford my patrons the best there is.

Special Offer for Early Orders

As in former years I am again giving my friends, and theirs, the opportunity of a liberal saving for early orders. This method not only assures my customers a large saving, but those who send in their orders early are more certain of getting all the varieties desired, and will also avoid disappointment and delays of a busy season when the rush begins. This has been my most favorable growing year and the consequent crop is perhaps the finest I have ever harvested, about 3000 bushels, many millions of bulbs in all sizes.

Flowers

'Mongst flowers pure I love to trod
In gardens fair or in the sod.
I like to take them in my hand
And look into their faces grand.

They come in every shade and hue
From purest white to dainty blue.
No grander beauty could there be
That ever Human eye could see.

Not only for the young are they
But also for the old and gray;
To love, to hold, to keep so dear
And fill their kind old hearts with cheer.

Pauline Kunderd, Aug. 11, 1920.

Offers:

With all orders of \$10.00 or over, mailed before Jan. 1, 1922, we will send one bulb each of "Purple Glory", "Gold Drop", "Myra", and "Alice Tiplady" extra.

With all orders of \$25.00 or over, mailed before Jan. 1, 1922, we will send one bulb each of "Snow Glory", "Gold Drop", "Lillian", "Ming Toy", "Blushing Beauty", "Primunella", and "Mona Lisa" extra.

With all orders of \$50.00 or over, mailed before Jan. 1, 1922, we will send your choice of "Indian Summer" (illustrated on page 42, described on page 4) or "Fern Kyle" (a large ruffled flower of finest creamy white color; not yet listed this season, as stock is too limited). Both of these varieties are worth \$25.00 per bulb. Should your order reach us after stock of one or the other is exhausted we reserve the right to send the other variety instead.

These offers are made solely in appreciation of receiving your orders early, in advance of our order-filling season, and to popularize our wonderful new productions.

Only one of the above offers can be allowed to a customer in one season.

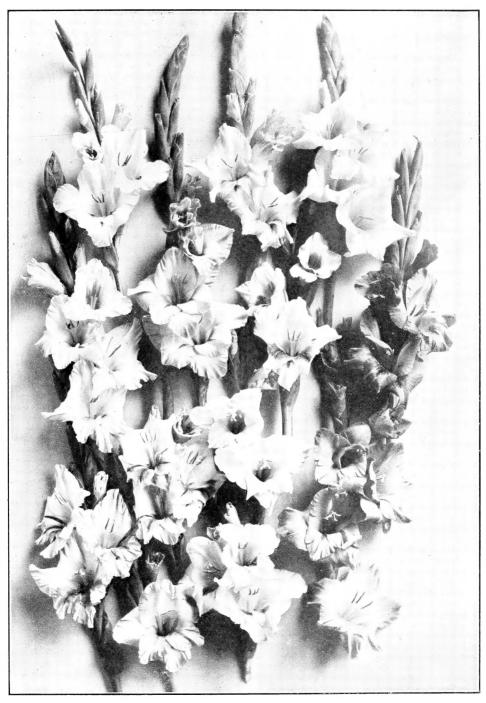
For new varieties, first offered this year, see pages 6 and 7.

Note-When ordering collections, please order by number.

Entirely New Race of Kunderdii Gladioli.

- These come into bloom about a month later than other late flowering kinds planted at the same time and will give you fine flowers after all others are past blooming. This is a very vigorous race, and produces plants even larger than other varieties.
- INDIAN SUMMER (1917) (See illustration page 42)—A cross between a "Kunderdii" variety and species "Quartinianus." The forerunner of a new class of gladioli. Full size bulbs produce strong spikes with six to eight very massive ruffled flowers open at a time. Color, a blush or light lavender rose-pink on a white ground. Very distinct flower and in general appearance very showy. Especially valuable to the gladiolus breeder, as it is a seed-bearing "hybrid." Only a few bulbs for sale and not more than one bulb to a customer this season....... Each, \$25.00
- AUTUMN (1917)—From same strain as above, but not quite so massive, nor so much ruffled. Three to five blooms open at a time. A very brilliant scarlet, somewhat the color of "Brenchleyensis." Tall, strong and fine plant............Each, \$5.00
- DUNLAPS, ARCADIA, STORM KING and ARCOLA (1917)—The four varieties are of varying shades of red (Storm King is very brilliant), and all have plain petals, partaking more of the species than of the other parent. One bulb of each of the last four varieties for......\$1.75

See special offer for early orders on pages 2 and 3.



"REPRESENTING THE BEAUTY OF RUFFLED GLADIOLI." $(\mbox{TIPS OF SPIKES})$

New Introductions for 1922

7 Ruffled, 20 Plain Petaled and 8 Primulinus Hybrids Each One a Distinct and Choice Variety

RUFFLED VARIETIES

RUFFLED VARIETIES
BEN BOA—Softest flesh white. Very beautiful ruffled variety
Each, 50c. Doz., \$5.00
BLUSHING BEAUTY—Opening buds blush pink, flower softest possible blush,
many open. Dainty pink throat lines. Plant of good height. A marvel of
daintiness and refinement
LILLIAN—Tall fine plant and foliage with many large blossoms open at a time.
Flowers white with light pink pencilings over all petals. Large and beautiful
deep rose pink blotches. Opening buds and flowers very beautiful. A grand
variety Each, \$1.00. Doz., \$10.00
NORUMBEGALarge and showy, brilliant and beautiful deep orange red. Very
fine Each, 50c. Doz., \$5.00
ORANGE FLAME—A wondrous glowing vermilion orange. Very large blooms
and magnificently ruffled. Splendid plant and spike. Each, \$3.00. Doz., \$30.00
RUFFLED BEAUTY—Deep American Beauty violet. Very large flowers on
medium height plant. Strongly ruffled and a very showy variety
Each, \$1.00. Doz., \$10.00
YELLOW GLORY—Upper petals fine deep canary yellow, lower petals deeper
daffodil yellow, with large neat purplish pink blotches. Tall fine stem, beauti-
fully ruffled yellow variety. Very effective vase and show flower
Fach, \$2.00 Doz \$20.00

COLLECTION OFFER

Collection No. 1.—Entire collection of 7 varieties described above (value \$9.00) for \$7.75.

(value \$5.00) 101 \$7.75.
PLAIN PETALED VARIETIES
ANTHONY ZONKER—Extra tall, strong plant with five to seven very large wide open blooms open at a time. Finest deep salmon rose, beautifully placed. Lower petals as beautifully blotched as "Pendleton." A distinct and showy flower named for a grand old man, my mother's father, grandfather
Each, \$1.00. Doz., \$10.00
ADORA—Creamy white ground, soft pink lines on primrose yellow throat. Strong
grower. A beautiful cut flower
AH—Pale apricot pink and yellow. Medium sized flower on vigorous plant and
foliage. Has a very beautiful opening bud reminding one of "Ophelia"
rose Each, 50c. Doz., \$5.00
BLUE RIBBON—A grand dark lilac blue, almost self color. Large flower, five to
six open at a time. Unusual
faintly blushed. Placed on stem like a Primulinus. Truly a very dainty
flower Each, 35c. Doz., \$3.50
DR. ELKINS-A true sport from "Mrs. Frank Pendleton." Same large and showy
flower, but the original rose pink has changed to a white and the large throat
blotches to a fine shade of lilac blue. A distinct and classy flower and a
decided acquisition
DR. W. VAN FLEET—Extra tall and slender plant, flowers of remarkable form and large size. A magnificent shade of delicate rose pink, deeper at edges
of all petals. Throat of softest canary yellow or cream tint beautifully
blended. A very extra variety equal to Mrs. Dr. NortonEach, \$1.00
E. G. HILL—Tall strong plant, large showy flower of finest salmon rose with
large beautiful cream throat. A first class variety and a favorite with the
great Hoosier, originator of roses, in whose honor it is namedEach, \$1.00
INDIAN MAID—Tall plant and fine stem. Flowers of beautiful peach blossom
pink with beautiful deeper throat. Very choice and distinct
Each, 35c. Doz., \$3.50

- JOHN T. PIRIE—An exceptionally colored variety and very beautiful. A sort of mahogany brown with remarkable yellow bordered dark mahogany brown throat. In a class by itself and should be in every collection.... Each. \$2.00 MADISON COOPER-Fine plant and spike with many beautiful flowers of an extra fine violet maroon or dark garnet red open at a time. A decidedly distinct and fine shade of dark red...... Each, \$1.00. Doz., \$10.00 MISS SPOKANE—Giant plant and very strong grower. Large flowers of orange salmon color, slightly deeper in throat. Six and seven open at a time. A show show in August and wherever shown at the big exhibitions. Many giant flowers open at a time on very strong stem and plant. Color of finest salmon pink, Almost self color, Illustrated on page 30..... Each, 50c. Doz., \$5.00 OZARK—Fine pure white with crimson or pink lines on lower petals......Each, 35c. Doz., \$3.50 PANTHEON—A large and massive waxy white on tall strong plant. Lower petals beautifully penciled and feathered rose..........Each, 50c. Doz., \$5.00 RED FIRE—A seedling of "Princeps." Entire flower of richest pure self colored bright red. Very striking and showy. Our best bright red gladiolus....... Each, \$1.00. Doz., \$10.00 SENATOR KNOX-Extra tall strong plant. Large flowers. White, blushed pink with slight throat lines. Very good and unusually distinct..... Each, 75c. Doz., \$7.50 UHLAN CHIEF-Tall graceful slender spike. Flower of most intense brilliant vermilion scarlet. Lower petals deeper color and beautiful dark feathered. A magnificent red..... Each, 75c. Doz., \$7.50 **COLLECTION OFFERS** Collection No. 2-Entire collection of 20 plain petaled varieties offered above and on preceding page (value \$17.30) for \$15.50. Collection No. 3—Omitting Dr. Elkins, Red Fire, Blue Ribbon and John T. Pirie, 16 varieties (value \$10.30) for \$9.00. Collection No. 4—Omitting all varieties valued at \$1.00 and above, 12 varieties (value \$6.30) for \$5.50. PRIMULINUS HYBRID VARIETIES BUTTERBOY—An extra tall, strong plant and giant bulb. Large buttercup yellow flowers, nicely spaced on spike. A decidedly distinct and showy Primulinus DRAGON—A tall fine plant. Large flower of blushed yellow, lower petals deeper yellow with nice pencilings. Back of stem and flower dark wine red, giving this variety a very unusual, distinct and striking effect..... GOLDEN GLEAM—Tall, very large and open Prim. of lighter shade than "Alice throat. A sensation at the North Shore Hort. Socy. show at Lake Forest, Ill., last August Each, 75c. Doz., \$7.50 SAGINAW—A mammoth Prim. Medium light salmon rose, flaked smoky rose. SALMON BUFF-A good height spike with very large flowers of beautiful salmon buff. Throat fine yellow beautifully penciled. Extra fine..... Each, 50c. Doz., \$5.00 WANETA-(R) Good size well opened flower of splendid shade, of rose pink
- COLLECTION OFFER
 Collection No. 5—Entire collection of 8 Primulinus varieties described above (value \$4.45) for \$4.00.

with throat of pure cream white. Choice.......Each, 50c. Doz., \$5.00 WHITE BUTTERFLY—A first class all white with soft cream white throat. Fine slender stem and beautiful cut flower......Each, 50c. Doz., \$5.00

22 New Ruffled Wonders Introduced in 1921

Kunderdii Type

BONNY—A lavender tinted pink, tinged old rose. A pretty flower of uncommon color Each, 25c. Doz., \$2.50
BUCKEYE—Very large massive bloom of fine rose pink color with tint of old rose at edge of petals. A beautiful large rose red throat. Very good Each, 50c. Doz., \$5.00
CHARM—Pure deep rose pink. A large and wonderful flower of beautiful shades, perfectly harmonized. A perfect blotch of deep red on lower petals. Grand and distinct
DEW DROP —Exceedingly beautiful white, delicately blushed. Lower petals are pastel cream, medium blotch. Choice
FAIRLAND—Large well expanded flower on tall spike. Vermilion scarlet, lighter toward center. Lower petals very beautifully blotched, finest shade of deep red. Extra fine
FAVORITE—Beautiful orange salmon, deeper in throat. Tall, strong, vigorous plant with many large finely ruffled flowers open at a time. Very fine Each, 50c. Doz., \$5.00
GLORIOUS—Tall, strong plant. Many blossoms open at a time. Soft cream color with deepest creamy apricot throat, beautifully marked. Extra choice Each, 50c. Doz., \$5.00
GENE—Beautiful yellow. Throat finely marked and penciled pink. Tall, showy spike
GYPSIE QUEEN—Large beautiful orange red. Edge of petals faintly bordered blueish. Extra
HUMMING BIRD—Deep rose with lavender sheen. Lower petals almost covered with beautiful blotches. Looks like an orchid. Exceptionally distinct and showy Each, 50c
MASTERPIECE—A magnificent ruffled "American Beauty" rose color. Giant flower and plant. Extremely fine
MEMORIES—Softest creamy white upper petals. Lower petals light canary yellow, nicely traced pink. A tall, showy plant with abundance of bloom
NUBIAN—Bright deep rose pink. Fine soft yellow and deep rose throat. Many flowers open at a time
ONEGA—Fine deep lavender rose. Large deep purplish red throat. A choice decorative variety
PEEP O'DAY—Tall, beautiful blushed pink on white ground. Long feather barred throat. Grand
PEARL OF DAWN—Rose pink, deeper bordered petals, lighter toward center. Large throat marks with deep red center lines. Elegant. Each, 75c. Doz., \$7.50

RUFFLED AMERICA—Almost a reproduction of "America," but is very well ruffled. Throat slightly deeper. An extra grand variety.......Each, \$1.00. Doz., \$10.00

SMILES—Large flower of Glory type.
White petals with fine rose pink
on outer edges. Splendid......
Each, 50c. Doz., \$5.00

SUMMER BLOSSOM—A very delightful shade salmon-rose pink. Beautiful deeper throat. Very well ruffled......Each, 35c. Doz., \$3.50

THISTLE—Large rose red of very open and perfect form. Pretty, large pansy-like throat markings. Tall, stately plant, extra choice............Each, 75c. Doz., \$7.50

TWILIGHT — Beautifully blushed creamy buff with throat of grandest yellow and pink. Magnificent.......Each, 75c. Doz., \$7.50

COLLECTION OFFERS

Collection No. 6—Entire collection of 22 varieties described on pages 8 and 9 (value, \$15.35), for \$13.75.

Collection No. 7 — Omitting "Masterpiece," 21 varieties (value, \$13.35), for \$12.00.

Collection No. 8—Omitting all valued at \$1.00 and above, 16 varieties (value, \$8.35), for \$7.50.

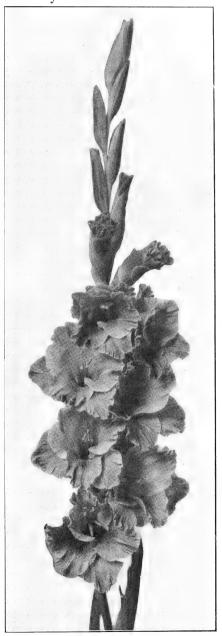
Collection No. 9 — Omitting "Humming Bird," "Memories" and "Nubian," and all valued at 75c and above, 10 varieties (value, \$4.60) for \$4.25.

NOTE

When ordering collections, please order by number.

See special offer for early orders on pages 2 and 3.

A Very Ruffled Gladiolus



CRINKLES

This illustration was selected by Prof. L. H. Bailey for his article on Gladiolus in his New Encyclopedia of Horticulture.

Gladiolus Kunderdii (Ruffled Varieties)

"Kunderdii" Know Them by Their Ruffled Petals
KUNDERDII GLORY (1907)—Beautiful creamy apricot with light tint of pink, and fine markings of red on lower petals. Can be grown over five feet tall with high culture. We give this first place as it is the first scientifically produced Ruffled Gladiolus ever sent out. It has received many certificates and awards, is known all over the world, and is the parent of many new varieties. Illustrated on page 1
ADORATION (1918)—Very large, grand saffron or Lincoln red. Deeper in throat. A grand, rare and beautiful self-color. Illustrated on page 46 Each, \$1.00. Doz., \$10.00
AEOLIAN (1916)—Tall, deep salmon rose Pale rose-blue bordered petals. Very large and fine. Rare color
ALTON (1917)—A wonderfully ruffled variety of finest orange color. A magnificent new gladiolus. Illustrated on page 48Each, \$1.00. Doz., \$10.00
AMERICAN INDIAN (1916)—Round flower. Fine velvety red; deeper red throat. Good size. Strongly ruffled
ANTHONY B. KUNDERD (1918)—Tall, large, intensely ruffled flower of delicate deep cream color. Overspread finest blush pink. Entire lower petals beautiful primrose cream flushed pink at edges. Grand. Illustrated on page 27.
AVALON (1916)—An extra choice blush white. Very beautiful throat. Magnificent, grand
CINNABAR (1916)—A large, self-colored red. Many open. A grand and brilliant red
CINNAMON BEAR (1916)—Rich, deep violet red; deeper throat. Large, fine blooms. An extra variety of this colorEach, 25c. Doz., \$2.50. 100, \$18.75
CRESCENT QUEEN (1916)—Very large, dark wine red. A beautiful variety of this color
CRINKLES (1916)—Deep peach blossom pink. Intensely ruffled. Illustrated on page 9Each, \$1.00
CULEBRA (1918)—White tinted salmon blush, deeper at border. Beautiful throatEach, 50c. Doz., \$5.00
DREAM (1918)—Large, massive bloom. Deep salmon red. Large, very showy blotches. Extra grandEach, 50c. Doz. \$5.00. 100, \$37.50
E. J. SHAYLOR (1918)—Tall, very strong plant and large blooms. A beautiful, pure, deep rose-pink. Was awarded Certificate of Merit by Royal Hort. Society of England, Aug. 10, 1920. Very choice. Illustrated on page 27
ELBA (1917)—A very large Nanceianus flowered deep lavender rose. Deeper throat. Showy, distinct
ELEGANCE (1918)—Tall, massive plant. Pure soft yellow. Beautiful throat. Grand ruffled
GOLDEN GLORY (1916)—A large, richly colored yellow, with beautiful throat. A fine ruffled yellow
INDIANAPOLIS (1916)—Tall, fine deep violet; deeper throat. Slight white median lines. Beautiful
JOE COLEMAN (1915)—Very large and vigorous. Rich red. Fine

- LA VANGE (1918)—Tall, large white. Large pink throat. Showy and fine......

 Each, 50c. Doz., \$5.00
- MARIE KUNDERD (1918)—A wonderful white. As early as "Chicago White". Of purest white with an almost invisible soft pink line in center of lower petals. Grandest of all whites. Illustrated on page 18........Each, \$5.00 (Awarded First Class Certificate of Merit by North Shore Hort. Society, Manchester, Mass., summer of 1919.)

- NAMPA (1917)—Large white, fine ruffled......Each, 35c.—Doz., \$3.50
- NYMPH (1918)—Tall, strong. Light lavender rose-pink. Creamy primrose throat. A ruffled "Mary Fennell" Each, 50c. Doz., \$5.00
- ORANGE GLORY (1915)—Kunderdii Glory type. Grand orange colored, with beautiful lighter throat. Very rich and striking color. Beautiful and distinct. Illustrated on page 27.............Each, 35c. Doz., \$3.50. 100, \$26.25
- PINK BEAUTY BLOTCH (1915)—Large flowered. Strong plant. Fine pink, with beautiful blotches on lower petals......Each, 20c. Doz., \$2.00. 100, \$15.00

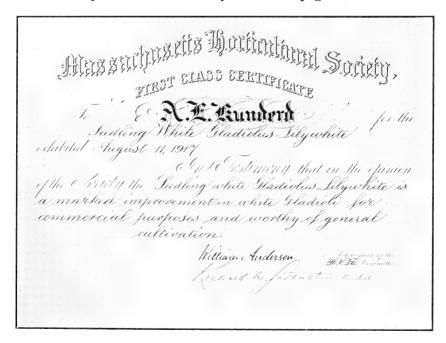
- RED, WHITE AND GOLD (1915)—A giant in plant and foliage, with a massive spike and good sized flowers. Upper portion of bloom, pure white. Lower petals entirely of a rich lemon yellow clear to the edge, with a beautiful pelargonium-like blotch of richest red on each... Each, 50c. Doz., \$5.00. 100, \$37.50
- RITA (1918)—A very fine ruffled yellow with pretty red throat......Each, 35c

ROSE GLORY (1916)—A very large and beautifully ruffled variety. Purest rose-pink color. Deeper in throat. Extra fine. Illustrated on page 27
SCARLANO (1917)—Light, bright orange-red. Fine spike and flower, finely ruffled Each, 50c. Doz., \$5.00. 100, \$37.50
SCARLET GLORY (1917)—In plant and flower much like "Kunderdii Glory", but not so deeply ruffled. A very fine red, of rich distinct color
SILVER MOON (1918)—White, tinted blush over entire flower. Beautiful throat. Distinct, extra Each, 50c. Doz., \$5.00. 100, \$37.50
SNAPDRAGON (1915)—Tall spike, fair sized flower. Reminds one of a snap- dragon in its remarkable form. Large, rich pure yellow throat with bright red border. Exceptionally distinct and beautifully ruffledEach, 50c
SNOW GLORY (1917)—Of purest all white, with only slight clear iris blue lines on lower petals. Very large and very showy. A wonderful flower. Illustrated on page 19
SPLENDORRA (1916)—Splendid, very dark wine-black. A fine, rich, distinct sort
TEMPA (1917)—Pink ground. Old rose. Bronzy lavender throat. Distinct and fine
VENTURA (1917)—Pure white with beautiful barred throat. A fine early ruffled variety Each, 35c. Doz., \$3.50
VIOLET BEAUTY (1916)—Tall, large, cerise-violet. Grand red throat blotches. Beautiful
VIOLET GLORY (1916)—Massive flower. Rich self-color, deep violet; deeper throat. Medium ruffled. Extra
WHITE BELLE (1918)—Tall, strong. Delicate blush white, deeper at edges. Beautiful throat
WHITE DELIGHT (1918)—Softest flesh white, beautifully blotched and creamy throat Each, 25c. Doz., \$2.50
WHITE GLORY (1915)—A gorgeous pure white of exact size and type as "Kunderdii Glory," with beautiful iris-blue throat. Fine as a delicate iris. Grand. Illustrated on page 48Each 35c. Doz., \$3.50. 100, \$26.25
WHITE IVORY (1915)—Like "Ivory", but taller and still more intensely ruffled. Snow white ground, with beautiful red blotches on lower petals. Very extra
WHITE KING (1915)—As tall as "Kunderdii Glory". Sulphur white, splendidly ruffled, and nicely marked on lower petals. (Synonym "Patrician") Each, 10c. Doz., \$1.00
YOUELL'S FAVORITE (1915)—One of Henry Youell's (Sec'y Am. Gladiolus Soc'y) favorites among our ruffled varieties. Large flower and plant. Striking rosy lavendar pink. Conspicuous and fine. Illustrated on page 46

..... Each, 20c. Doz., \$2.00. 100, \$15.00

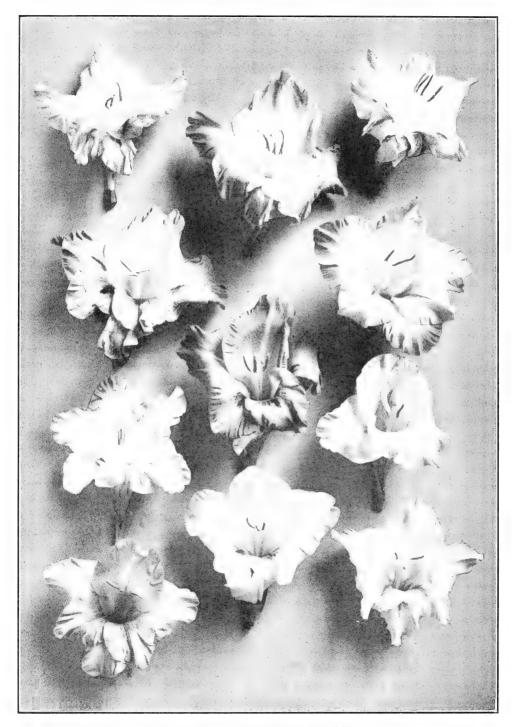
COLLECTION OFFERS

- Collection No. 10—Entire collection of 57 varieties described on pages 10, 11 and 12 (value, \$35.35) for \$30.00.
- Collection No. 11—Omitting "Marie Kunderd" and "Snow Glory", 55 varieties (value, \$27.35), for \$23.50.
- Collection No. 12—Omitting all valued at \$1.00 and above, 48 varieties (value, \$18.85), for \$16.50.
- Collection No. 13—Dream, E. J. Shaylor, Mona Lisa, Pink Lily, Rosalind, Red White and Gold, Scarlano, Golden Glory, Aeolían, Pride of Lancaster, President Menocal and all other varieties in this list priced at less than 50c, 39 varieties (value \$14.10), for \$11.50.
- Collection No. 14—Omitting all valued at 50c and above, 28 varieties (valued \$7.85) for \$6.75.
 - Note—When ordering collections, please order by number. See special offers for early orders on pages 2 and 3



CERTIFICATE OF MERIT AWARDED "LILYWHITE"

Hundreds of First-Class Certificates, Highest Awards, Medals, Certificates of Merit, etc., have been awarded to many exhibitors of Kunderd Gladioli at The American Gladiolus Society's annual exhibitions, and at all leading American and foreign exhibits wherever these "new creations" have been shown.



"MORE RUFFLED BEAUTIES"

Forty-Six New Gems (1921)

From the same strains as our "Kunderdii" type, but without ruffled petals.

(Some are lightly ruffled.) Offered for the first time in 1921.

ALICIA-Tall, showy, brilliant orange salmon, light throat. Many large flowers open at a time. Distinct, showy and fine..... Each, 30c. Doz., \$3.00 AL SHIRA-Large, very dark wine red, with large, almost black throat. Tall and showy Each 50c. Doz., \$5.00 ATREUS-Grandest pure rose pink of most delicate shade. Strong grower and very, very beautiful...... Each, 75c. Doz., \$7.50 BLUE LILY—Light violet blue. Medium size flowers. Five and six open at a time. Graceful stem Each, 50c. Doz., \$5.00 BUMBLE BEE-Large, broadly expanded flower of purest salmon rose pink. Ground penciled blue. Magnificent throat of deeper color. Each, 50c. Doz., \$5.00 CRIMSON SPUR-One of our best varigated varieties. Ground white, striped beautifully with crimson Each, \$1.00 CHEER—Bright salmon red. Large all white throat...... Each, 25c. Doz., \$2,50 COLORS-Of deepest dark wine maroon. Exquisite lower petals entirely covered by richest velvety dark red, most beautifully mottled and flaked cream...... Each, 35c. Doz. \$3.50 EBONY-Large blooms, dark brownish red. Unusual and fine. Each, 50c. Doz., \$5.00 ENIGMA—Tall plant with large flowers. Strikingly striped red, white and blue. Is all that the name implies. Illustrated on page 50.. Each, \$1.00. Doz., \$10.00 **EXQUISITE**—American Beauty rose color. Self color. Large and strong......Each, 75c. Doz., \$7.50 EPHEUS—Large flower of beautiful rose pink, deeper at edges of petals. Rose and white lined throat......Each, 35c. Doz., \$3.50 ELATE—Brilliant red. Throat feathered and barred yellow and white. Tall plant with magnificent long drooping ribbon-like foliage..... Each, 25c.

FLAMING VALE—Very tall, long spikes with large deep cardinal red flowers. Throat a little deeper. Pure self color effect. Very good. Each, 50c. Doz., \$5.00

FROLIC—Tall, stately plant. Many fine rose pink flowers open at a time. Flaked deep rose pink or red. Choice striped variety.......Each, 25c. Doz., \$2.50

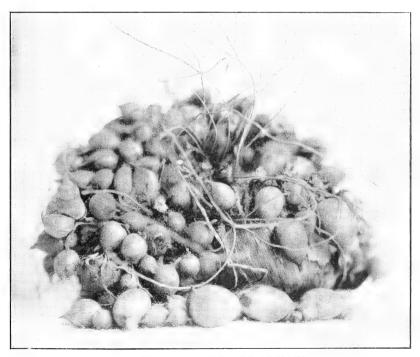
- HELGA—Fine salmon rose. Deeper rose and cream on white ground. Unusually graceful spike, tall and handsome plant ... Each, 25c. Doz., \$2.50. 100, \$18.75
- HOOSIER—A giant flower of finest salmon rose. Throat blotches as large and beautiful as in "Mrs. Frank Pendleton." Color of blotches, violet maroon....

 Each, 75c. Doz., \$7.50

IMMENSITY—Tall, strong plant. Bright salmon color. Very large flowers and many open at a time. Very choice
JULIA—A tall large-flowered Vermilion red. Deeper throat
LILAC UNIQUE—Deep lilac, deeper throat, large flowers. Fine
LA CREAM—Most delicate light cream ground color, softest sulphur throat perfectly blended. Delicate blush on back of bloom and spikes. Very refined
MILDA—Tall, pale old rose with large deep dark red throat. FineEach, 50c
ORPHEUM—Deep rose, deeper throat. Self color. Tall, graceful spikes Each, 35c. Doz., \$3.50
OTHELLO—Tall, stately plant. Flowers a lavender tint on white ground. Dark royal purple throat
OLD SMOKY—Tall, smoky blue with deep dark red throat. Very pretty Each, 25c. Doz., \$2.50
RED COPPER—Large flowers, deep salmon rose heavily flaked blue. Lower petals red, white and yellow, lined and penciled with blue. A choice fancy color Each, 35c. Doz., \$3.50
ROSE UNIQUE—Tall, very large and expanded flowers. Pure rose color with rose red feathered blotch on lower petals. ChoiceEach, 25c. Doz., \$2,50
RED PLUME—Very beautiful red with large exceptionally beautiful bird-like deep red throat blotches
REMEMBRANCE—Tall spike, many large flowers open at a time. Deep salmon rose pink. Large and beautiful throat blotchesEach, 35c. Doz., \$3.50
RED CLOUD—Grand Bright red. Many open. White bar in three lower petals
RARITY—Very tall, vigorous plant. Flowers of bright lavender tinted old rose. A rare shade
SALMON PLUME—Clear salmon flesh, deeper at edges of petals. A pretty red throat. Choice
SUMMER DAY—Orange Vermilion with large deep pure canary yellow throat
SUNSHINE—Large, deep orange red with beautiful yellow throat, finely stippled red at edgesEach, 50c
TRANQUIL—Tall, showy plant with many fine deep blood red blossoms open at a time. Each petal finely and distinctly bordered pure white. Very unusual Each, 50c. Doz., \$5.00
TARO—Large flowers on strong spikes. American Beauty rose color. A new shade among gladioli
UNUSUAL—A fine aniline red, lower petals deeper. Beautifully striped and veined white Each, 25c. Doz., \$2.50 VISTULA—Rich deep violet purple. Tall, graceful spike Each, 25c. Doz., \$2.50
VIRGINIA HALE—Beautiful soft creamy salmon rose, deeper towards border of all petals. Very refined and beautiful varietyEach, \$1.00

COLLECTION OFFERS

- Collection No. 15—Entire collection of 46 varieties described on pages 15, 16 and 17 (value, \$23.80) for \$21.00.
- Collection No. 16—Omitting all valued at \$1.00 and above, 41 varieties (value, \$17.80) for \$15.75.
- Collection No. 17—Omitting all valued at 75c and above, 35 varieties (value, \$13.30 for \$11.75.
- Collection No. 18—Omitting all valued at 50c and above, 21 varieties (value, \$6.30) for \$5.50.



"KUNDERD BULBS PRODUCE"

Neither the Color or Black and White Engravings can fully illustrate the beauty of flowers

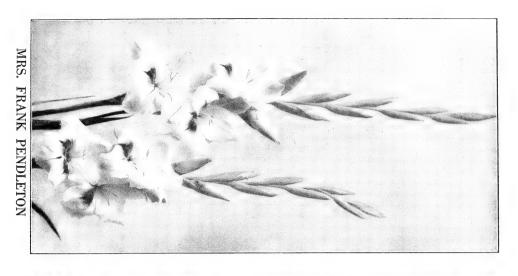
The Wonderful New White Ruffled Gladiolus

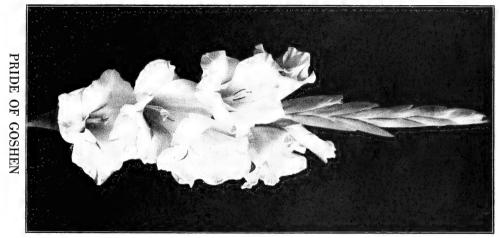


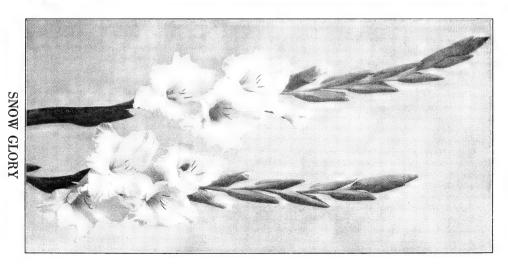
MARIE KUNDERD

Awarded First-Class Certificate of Merit by North Shore Horticultural Society, Manchester, Mass., Summer of 1919.

See special offer for early orders on pages 2 and 3.







An Extra Choice Collection

From same strains as our "Kunderdi" type, but without ruffled petals. (Some are lightly ruffled.) All our own productions.

ABERDEEN (1917)—A very beautiful lavender tinted pink. Distinct and fine Each, 15c. Doz., \$1.50. 100, \$11.25
ADRIATIC (1918)—Deep wine blue. Blue and red throat. Extraordinary, beautiful Each, 50c. Doz., \$5.00
AGATHA (1918)—Deep peach blossom pink. A grand varietyEach, 50c
ALHAMBRA (1917)—An exceedingly brilliant vermilion scarlet. Extra Each, 35c. Doz., \$3.50. 100, \$26.25
ANILINE (1915)—A fine, deep aniline red. An unusual color. Beautiful Each, 15c. Doz., \$1.50. 100, \$11.25
ANTHEM (1918)—Light rose red. Throat deeper. Very beautiful self-colors Each, 25c. Doz., \$2,50
ARIZONA ROSE (1915)—A very large flower of finest rose-pink color. Almost a self-color. Very choice
ASHBURN (1917)—A very massive salmon red, flaked deeper. Showy
ATHERTON (1918)—Deep salmon rose. Petals clearly blue bordered. A beautiful variety Each, 25c. Doz., \$2.50. 100, \$18.75
BARONESS (1918)—Deep lilac or violet red. Rich, attractive and beautiful Each, 75c. Doz., \$7.50
BIG BLACK (1915)—An extra large flower of a very pure, rich, deep red, self-color. Very rich, distinct and showy
BLACK BIRD (1916)—Tall, large-flowered Lemoinei type. Very dark, entire lower petals almost black. A fine dark variety Each, 25c. Doz., \$2.50
BLACK EYE (1916)—Very tall and fine, almost a black-red. The real black-eyed Gladiolus
BLACK PANSY (1915)—Of richest dark red. Beautiful pansy-like throat. Extra Illustrated page 50
BLUE ORCHID (1916)—Rich self violet blue; black blotch with golden heart on lower petals. Extra
BLUE ISLE (1916)—A good-sized lilac-blue, dark red blotches. A fine blue Each, 30c. Doz., \$3.00
BRIGHT RED (1915)—Brightest vermilion red. Self-color. Each, 25c. Doz., \$2.50
BYRON L. SMITH (1917)—One of the very best. Most refined lavender pink on white ground. Exceedingly fine as a cut flower. Color equal to a very choice cattleya orchid. Illustrated on page 38Each, 50c. Doz., \$5.00
CANARY QUEEN (1917)—Very refined sulphur yellow. Many fine good size flowers open at a time. Very attractiveEach, 25c. Doz., \$2.50. 100, \$18.75
CHALLENGER (1915)—Very large and vigorous plant. Giant, dark rich velvety red, solid color. An extraordinary fine new variety
CHARLIE KOHLER (1916)—Tall, large flower, most brilliant scarlet. A very showy, distinct self-color
CHERRY KING (1915)—Bright, rich cherry color. Deeper throat. Very lily-like flower and beautiful
CINCINNATUS HEINE (1916)—Purest white with faintest blush. Softest creamy yellow throat. Named for the great poet. Very beautiful
Each. 30c. Doz., \$3.00, 100, \$22.50

CIRCE (1916)—Very early, tall, deep dark red. A large, extra fine dark flower.. Each, 35c. Doz., \$3,50 COPRE (1916)—Similar to "Grandeur". Equally distinct and beautiful...... Each, 30c. Doz., \$3.00. 100. \$22.50 CORUNNA (1916) - Large flower with wide-spreading petals. Has a remarkably large, almost coal-black throat, bordered white. An extraordinary flower. (Named in honor of the little Indiana village near which the originator of these flowers was born)...... Each, 35c. Doz., \$3.50. 100, \$26.25 CYMBALINE (1915)—A large, beautiful, bright, deep velvety aniline color. Very showy red of unusual color. Very beautiful. Each, 15c. Doz. \$1.50. 100, \$11.25 DAISY RAND (1917)-Softest deep salmon pink over white ground. Beautiful green throat base. A first-class and beautiful variety...........Each. 30c DARKEST, (1916)—Slender, graceful plant and neat flower. The darkest red we have. Attractive Each, 50c DEFIANCE (1916)-Very large and massive. Tall, many open. Delicate blushwhite, fine throat. Extra grand Each, 35c. Doz., \$3.50. 100, \$26.25 DIXIE (1917)—One of the very deepest and richest, almost black, red...... Each, 15c, Doz., \$1.50. 100, \$11.25 EARLY PENDLETON (1916)—Almost like "Mrs. Frank Pendleton". Much earlier and more blossoms open at a time. Gracefully placed flowers on a graceful spike. A fine seedling of "Pendleton"....Each, 30c. Doz., \$3.00. 100, \$22.50 EL CAPITAN (1915)—Very tall spike. Softest sulphur tint, slightly marked lower petals. A dozen or more good sized blooms open at a time. Good...... Each, 15c. Doz., \$1.50 ELKHART (1917)-Violet Purple, deeper throat blotch. An extraordinary rich ESTA (1918)—Tall, strong, clear white with slight halo. An ideal cut flower..... Each, 35c. Doz., \$3.50. 100, \$26.25 ESTELLA (1916-One of the largest gladioli. Fine deep rose-pink. and beautiful Each, 15c. Doz., \$1.50. 100, \$11.25 FAIR COLUMBIAN (1915)—Tall, vigorous plant, with large, fine, showy, lilac-pink FAIREST WHITE (1918)—Purest white, softest pink throat lines. Etherially beautiful. Illustrated on page 26...... Each, 50c. Doz., \$5.00 FAIRFIELD (1916)—Tall, vigorous Giant flower. Very symmetrical. Beautiful dark maroon color. Extra..... Each, 35c. Doz., \$3.50 FARIE (1915)—A delicate creamy pink flower with cream throat. Very fine..... Each, 25c. Doz., \$2.50 FIRE RIBBON (1915)—Tall, with many blooms open at a time. The spike is a long, fiery band of glowing red. Exceedingly rich and strikingly showy. Magnificent. Illustrated on page 44......Each, 25c. Doz., \$2.50. 100, \$18.75 FLORAL TREASURE (1916)—Tall "America" seedling. Deeper pink. Very rich color Each, 25c. Doz., \$2.50. 100, \$18.75 GAIETY (1915)—Bright salmon pink, flaked deep salmon red. Very conspicuous pure white blotches on lower petals. Large flower and tall spikes. Exception-GAY BOY (1916)-Very early, bright dark rose, heavily flaked darker. Beautiful GIANT FAWN (1915)-Very large, deep fawn yellow, faintly blush-pink bordered. Beautiful red line in throat. An extra large yellow. Illustrated on page 38 Each, 50c. Doz., \$5.00 GIANT MYRTLE (1918)-Much larger, showier, softer pink than "Myrtle." In a

- GRANDEUR (1916)—Very massive, deep vermilion pink. Large, graceful and exceptionally distinct and beautiful.......Each, 30c. Doz., \$3.00. 100, \$22.50
- HERNDON (1917)—Fine flesh white, delicate deeper throat. Good. Half ruffled.
 Each, 15c. Doz., \$1.50
- HILO (1917)—Fiery orange vermilion, flaked deeper. Showy white throat. Fine. Each, 20c. Doz., \$2.00

- INDIANOLA (1918)—A beautiful salmon rose-pink...... Each, 25c. Doz., \$2.50
- KILIMA (1918)—Tall, slender plant. Beautiful creamy salmon blush. Very elegant. Illustrated on page 40...........Each 25c. Doz., \$2.50. 100, \$18.75
- LARGE BUFF (1915)—A fine shade of soft buff, sometimes blushed. Rose penciling in throat. A fine tint of apricot buff. A rare and beautiful color.......

 Each, 10c. Doz., \$1.00

- LILYWHITE (1915)—The fine new pure snowwhite gladioli that fiorists have long been looking for. A reliable first-class early forcing variety. Good height, nice size blossoms, six to seven open at a time. Very prolific. Illustrated on page 48Each, 25c. Doz., \$2.50. 100, \$18.75 Photographic reproduction of Certificate of Merit awarded this variety by the Mass. Hort. Soc'y. Illustrated on page 13.

- MAGENTA (1918)—A beautiful large flower near "American Beauty" rose color. Grand Each, 35c. Doz., \$3.50. 100, \$26.25

- MARBLE BARRED (1915)—Tall, very large flower, beautifully striped on white ground. Throat is elegantly stippled and flaked with finest tintings. An extra choice and dependable variegated variety. Each, 25c. Doz., \$2.50.
- MARY FENNELL (1917)—Deep lilac, shading paler. Soft primrose yellow throat. Extra Each, 20c. Doz., \$2,00
- MARY PICKFORD (1915)—An extraordinary flower and spike of most delicate creamy-white. Throat finest soft sulphur-yellow. Stem and calix also white. Worthy of a great name. See page 44...Each, 35c. Doz., \$3.50. 100, \$26.25 "Mary Pickford" was awarded Certificate of Merit by Royal Hort. Society, London, Aug. 10, 1920; also First-class Certificate of Merit by North Shore Hort. Society. Manchester. Mass., Summer of 1919. Illustrated on page 44.

- MRS. A. E. KUNDERD (1915)—Large flowered, tall, superbly formed white with slight tint of blush-pink. A truly magnificent white... Each, 15c. Doz. \$1.50
- MRS. ARTHUR MEEKER (1917)—Exceptionally fine, rich deep American Beauty rose color. A very beautiful and unusual color......Each, 50c. Doz., \$5.00
- MRS. DR. NORTON (1915)—Finest cream and pink. The sensation among the newer gladioli shown at the American Gladiolus Society's show the last six seasons. Everywhere awarded the highest honors. Illustrated on cover.....

 Each, 50c. Doz., \$5,00. 100. \$37.50
- MRS. FRANK PENDLETON (1915)—Bright rose-pink on a pure white ground. A giant blotch of richest carmine red on lower petals. No grander variety in existence. Awarded highest honors of The American Gladiolus Society, Mass., Horticultural Society, and many others. Illustrated on cover and page 19 Each, 15c. Doz., \$1.50. 100, \$10.00

- NEUTRALITY (1916)—An "America" seedling. Larger plant and flower. Purer pink and showier, better form. Extra...Each, 35c. Doz., \$3.50. 100, \$26.25
- NEOGA (1917)—Dark garnet red, deeper throat. Half ruffled. A rich dark red. Each, 15c. Doz., \$1.50. 100, \$11.75
- NOXALL (1918)—Massive, pure white with dainty beautiful throat. Extra good. Each, 40c. Doz., \$4.00. 100, \$30.00
- OAK PARK (1917)—A splendid white, slightly marked throat. Each, 15c. Doz., \$1.50

- OCILLA (1917)—Very large white. Rose-red throat. Fine and beautiful.......

 Each, 20c. Doz., \$2.00
- OPHELIA (1918)—Tall, slender, graceful, all white. An ideal florist's white..... Each, 35c. Doz., \$3.50
- OLD GLORY (1915)—A fine shade of dark red, elegantly striped all over the large blooms with pure white. Also pure white bordered petals. A grand fancy show sort. No other near like this one...... Each, 35c. Doz., \$3.50. 100, \$26.25

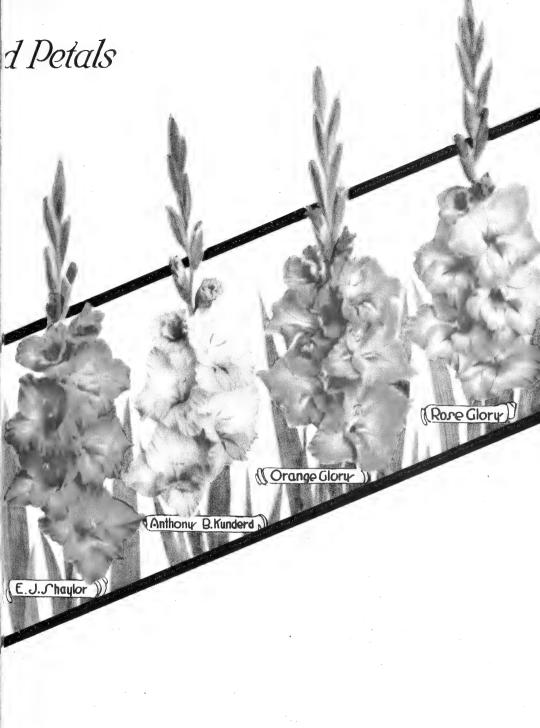
- PAREXCEL (1915)—Of purest deep salmon pink, with finest large Pelargonium-like throat blotches. Grand...........Each, 20c. Doz., \$2.00. 100, \$15.00
- PEACH ROSE (1917)—An extra choice and distinct deep rose-pink of remarkable color and appearance. A very beautiful variety. 4X...Each, 75c. Doz., \$7.50 "Peach Rose" was awarded First-class Certificate of Merit by Mass. Hort. Society, Summer of 1919
- PRIMROSE BEAUTY (1918)—Tall, strong. Very large, primrose yellow. Extra Each, 20c. Doz., \$2.00. 100, \$15.00
- PURPLE PANSY (1915)—Tall, slender plant. Plenty of blooms open at a time. Richest deep purple, fine pansy-like throat............Each, 30c. Doz., \$3.00
- PURPLE SPOT (1918)—Large, violet red with very conspicuous dark blotches. Early, grand, showy...... Each, 35c. Doz., \$3 50
- PYTHIA (1918)—A gigantic red with many massive blooms open at a time. Extremely showy and grand. Illustrated on page 30......Each, \$1.00
- RAJAH (1917)—A well known, very choice giant dark red..........Each, \$1.00
- RED AMARILLAS (1915)—Brilliant blood-red flower of giant size on medium height plant. Blooms formed like an Amaryllis. Most gorgeous and showy red. Was awarded first for best red at the Soc'y of Am. Florists' Convention, Am. Gladiolus Society Show, Boston......Each, 15c. Doz., \$1.50. 100, \$11.25
- RED CIGAR (1917)—Tall plant, extra fine foliage. Flowers brilliant self-colored red. Rarely opens fully. Resembles a large, flery cigar. Each, 25c. Doz., \$2.50
- RED KNIGHT (1917)—Large, very unusual deep ox-blood red. Exceptionally distinct and fine self-color...............Each, 35c. Doz., \$3.50. 100, \$26.25
- ROBERT J. KUNDERD (1918)—Medium tall, very large, most brilliant deep vermilion or orange scarlet. A wonderful showy self-color. Illustrated. Each, \$2.00
- ROMANCE (1918)—Large, orange, salmon rose, red and yellow throat. Wine blue bordered petals. Unusually distinct and very showy. Each, 75c. Doz., \$7.50
- 1910 ROSE (1915)—Very large flower, pure rose pink of extra fine shade. Narrow white central line on lower petals......Each, 20c. Doz., \$2.00. 100, \$15.00
- ROSY GLOW (1918)—Giant plant, massive flower of fine rose pink on white ground. Very beautiful. Illustrated on cover.......Each, 35c. Doz., \$3.50

SCARLET PRINCEPS (1917) - Six or more massive "Princeps" like blooms open at a time. Throat a little deeper, Blooms set close. An extraordinary distinct and massive spike. Illustrated on page 29..... Each, 35c. Doz., \$3,50. 100. \$26.25 SENTINEL (1915) - Tall, strong plant. Large, pure rose-pink, with elegantly whitenenciled, iris-like throat. Extra showy, choice rose-pink..... Each, 15c. Doz., \$1.50. 100. \$11.25 SILVER LACE (1916)—Another very fine "America" seedling. A most beautiful soft-tinted blush, almost white. Silvery plush, or frosted silver finish. The name describes it. Distinct and fine...... Each, 35c. Doz., \$3.50 SNOW FLAKE (1915)—An all-white, large flower on good plant. Without any tint or markings. A fine new all-white............Each. 25c. Doz., \$2.50 SUMMER BEAUTY (1915)—No finer pink. Very choice, deep salmon, distinct shade. Tall and showy. Grand..........Each, 15c. Doz., \$1.50. 100, \$11.25 SURPRISE (1915)—As upright as a tuberose. Medium size, good height, plenty open. Large yellow throat, pink bordered. Very uncommon form and neat flower spike Each, 20c. Doz., \$2.00 THERESA (1917)—Fine pink, blushed white, beautifully penciled throat. Half ruffled Each, 20c. Doz., \$2.00 ULYSSES (1916)-Much like "King Smoke", but not quite so much flaked and not ruffled A fancy or rich colored variety... Each, 35c. Doz., \$3.50. 100, \$26.25 UNIQUE (1918)—Tall, large, finest salmon pink. Extra good and showy...... Each, 30c. Doz., \$3.00. 100. \$22.50 VENETA (1918) - Massive old rose red, with deeper rose red border. Conspicuous, showy and distinct...... Each, 35c. Doz., \$3.50 VERNON (1918)—Deep salmon rose-red, heavily flaked blue. Large white throat bordered bright red. Large and very showy......... Each, 30c. Doz., \$3.00 VILLA (1916)—Very dark, flaked almost black. Lower petals nearly black to edge, with slight white median lines. Splendid..........Each, 20c. Doz., \$2.00 VINTON (1918)—Deep salmon pink. Deeper red blotches, bordered finest yellow. A beautiful variety Each, 25c. Doz., \$2.50. 100, \$18.75 WALHALLA (1916)—Blush white, petals edged with softest pink. Creamy throat, Each, 25c. Doz., \$2.50 WHITE PEARL (1915)-Very tall, many open. Rather small bloom, but pure white, with Candidum lily-like throat, and nicely waved petals. Very neat, distinct and pretty Each, 30c. Doz., \$3.00 WHITE PENDLETON (1917)-A magnificent, very large, round white, with as beautiful a throat blotch as "Pendleton." Extra good. Illustrated on page 30 Each, 75c. Doz., \$7.50 WILLIS E. FRYER (1918)-Very large, massive, deep violet. Beautiful throat. Extra fine. Illustrated on page 26...... Each, 75c. Doz., \$7.50 WINEDROP (1917)—Large, deep, dark wine red with an unusual large and showy, almost black-eyed throat. Very distinct and showy.... Each, 25c. Doz., \$2.50

NOTE—For collection offers, see page 28.

"KUNDERDII" Know them by their Ruffle



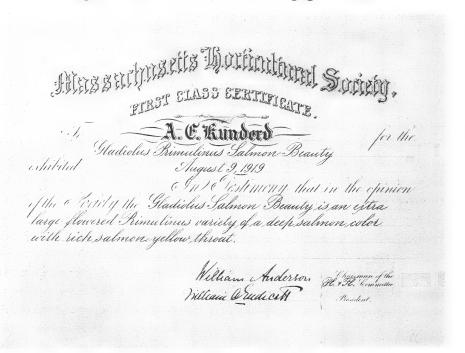


are good when they come from Kunderd"

- Collection No. 19—Entire collection of 131 varieties described on pages 20, 21, 22, 23, 24 and 25 (value, \$48.75) for \$42.00.
- Collection No. 20—Omitting all valued at \$1.00 and above, 125 varieties (value, \$36.75) for \$31.00.
- Collection No. 21—Omitting all valued at 50c and above, 107 varieties (value, \$26.50) for \$22.00.
- Collection No. 22—Omitting all valued at 35c and above, 83 varieties (value, \$18.05) for \$14.75.
- Collection No. 23—Omitting all valued at 30c and above, 70 varieties (value, \$14.15) for \$11.75.
- Collection No. 24—Omitting all valued at 25c and above, 40 varieties (value, \$6.65) for \$5.00.

Note-When ordering collections, please order by number.

See special offer for early orders on pages 2 and 3.



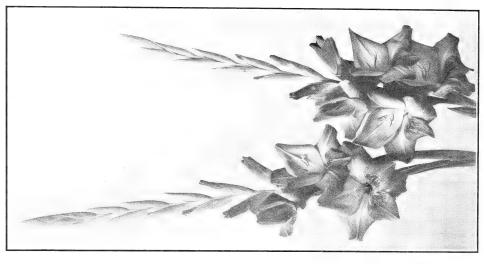
CERTIFICATE OF MERIT AWARDED "SALMON BEAUTY"

Hundreds of First-Class Certificates, Highest Awards, Medals, Certificates of Merit, etc., have been awarded to many exhibitors of Kunderd Gladioli at The American Socy's annual exhibitions, and at all leading American and foreign exhibits wherever these "new creations" have been shown.

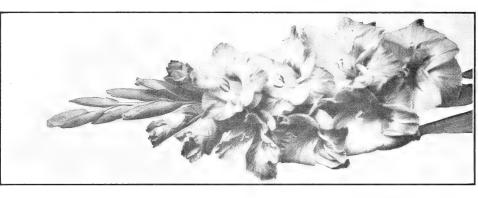


SALMON BEAUTY

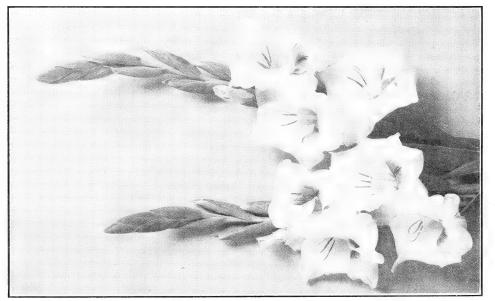












WHITE PENDLETON

New Primulinus Hybrids (Kunderdii)

"As Lifelike as Butterflies, as Graceful as Orchids"

Primulinus hybrids are distinguished mainly for their fine and various shades of yellow, orange and saffron colors, graceful slender stems and airily poised flowers. Our strains of these vary from other strains of Primulinus hybrids as our Kunderdii differ from other strains of Gladiolus. Our mixtures of these contain many equal to most of the named kinds

Read the following opinion of Mr. Maurice Fuld, of New York, seedsman, author and lecturer, founder of The American Gladiolus Society, and one of the

best judges of the newer Gladioli.

"You must know the species called 'Primulinus' before you can fully appreciate what Kunderd has produced.... In the whole world, Mr. Kunderd's new introduction will, for a long time to come, rank as the greatest achievement in Gladiolus culture... The name of Kunderd stands today for the best and choicest in Gladioli of American origin, and to his credit we can recall a host of the best prize winners in our whole collections.

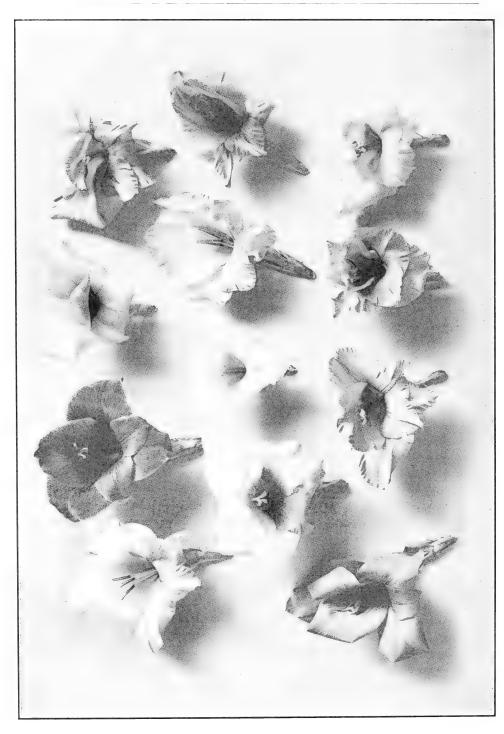
THIS COLLECTION WAS OFFERED LAST YEAR FOR THE FIRST TIME All marked thus (R) are Ruffled Varieties.

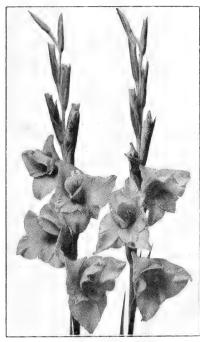
DORIAN—Slender, graceful plant, creamy white blossoms with deep canary cream colored throat. Finely blended.......................Each, 30c. Doz., \$3.00

EDEN—Tall, light salmon or flesh pink, deeper at border of petals. Lower petals white blushed at edges. Fine canary yellow throat... Each, 35c. Doz., \$3.50

NIGHTINGALE—Tall, graceful plant with softest rose-pink blooms. Delicate creamy white, blended with pink in throat......Each, 35c. Doz., \$3.50

Collection No. 25—Entire collection of 16 varieties described on this page (value, \$7.60) for \$7.00.





"BUTTERFLY"

Primulinus Hybrids

The New Race of Gladiolus

A NEW and beautiful race of Gladioli has been produced by using the fine yellow species "Primulinus," or "Maid of the Mist", in crossing with the older existing strains. The varieties resulting are distinguished mainly for their fine and varying shades of yellow, graceful slender stems, and airily poised and hooded flowers.

No other race of Gladiolus contains such varied and beautiful tints of yellow, orange and saffron colors.

A glance at the illustrations on pages 29, 32 and 33 will reveal to any one the great beauty and difference in our strain of Primulinus Hybrids from all others, not alone in the ruffled feature (which is of our production), but also in the remarkable and varying butterfly and orchid-like forms. Some have ruffled petals, some plain and some intermediate. No other strains of Primulinus Hybrids compare with these; no others are like them.

All marked thus (R) are Ruffled Varieties.

ALBIA (1916)—Tall, many open. Richest rose pink, lighter throat. Extra fine throat markings
ALICE TIPLADY (1915)—Primulinus species X yellow Kunderdii. A grand, large Primulinus of most beautiful orange saffron color. Very choice
"Alice Tiplady" was awarded First-class Certificate of Merit by North Shore Hort. Society, Manchester, Mass., Summer of 1919, and many others.
ALTAIR (1916)—Extra tall, of finest salmon saffron. A grand color Each, 25c. Doz., \$2.50. 100, \$18.75
ANAMOSA (1916)—Extra tall. Finest orange salmon. Very large. Many open. Golden throat. Very beautiful and beautifully markedEach, 25c. Doz., \$2.50
ANGOLA (1916)—A fine salmon pink Each, 15c. Doz., \$1.50. 100, \$11.25
ANITA (1916)—An extra tall, richest canary yellow. Deeper throat. Many open. Very good
ARGO (1915)—Grand, tall, large. The Primulinus Myrtle. Extra. Illustrated on cover Each, 25c. Doz., \$2.50. 100, \$18.75
ARLON (1918)—Very large wide petaled flower of light salmon. Grand red throat with deeper central lines. Showy and conspicuous. Illustrated on cover Each, 35c. Doz., \$3.50. 100, \$26.25
ASTRA (R-1918)—Pale sulphur yellow. Very delicate and refined
BOUQUET (R-1918)—Of light yellow color. Lower petals deeper and beautifully penciled pink. A pure, daintily colored and beautiful variety
BUTTERFLY (R-1915)—Kunderdii Glory X species Primulinus. Very strong and vigorous. Large, pale, salmon yellow, ruffled flowers. Illustrated on page 33

```
CANOPUS (1915)-Large, rich, solid yellow, fine shade of deeper yellow throat.
  Extra ...... Each, 25c. Doz., $2.50
CAPELLA (1915)—Tall, very bright, fiery orange red. Very large and choice....
   ..... Each, 25c. Doz., $2.50. 100, $18.75
CASSANDRA (1918)—Soft salmon buff, deeper on outer border. Very good....
   ..... Each, 20c. Doz., $2.00
CUTIE (1918)-Tall, slender, graceful plant. Small rich yellow blooms, oddly
   notched or crimped. Neat and dainty..... Each, 20c. Doz., $2.00
ELBERTON (1916)—Tall, finest creamy yellow. Lower petals much deeper. Large.
   Very pure rich color. Illustrated on cover...... Each, 15c. Doz., $1.50
ENON (1918)-Large, deep cream yellow and orange. Choice, chaste and beauti-
   ful ...... Each, 50c. Doz., $5.00
FAUN (1918)—Bronzy pink on soft yellow ground. Distinct and beautiful.....
   ..... Each, 25c. Doz., $2.50. 100, $18.75
FIRE FLY (1916)—Extra bright richest deep scarlet. Pure rich self-color. 4X....
   ..... Each, 25c. Doz., $2.50. 100, $18.75
FLORIAN (1918)—Tall, slender. Deep old rose, tinted violet. Neat little flowers.
   ..... Each, 25c. Doz., $2.50
GLADNESS (1918)—Lavender rose. Deeper outside. Penciled yellow throat. Ele-
  gant cut flower ...... Each, 25c. Doz., $2.50, 100, $18.75
GOLD DROP (R-1915)—An extra large, pure deep yellow, with beautiful red line on
   petals. Beautifully ruffled. 4X. Grand ...... Each, $1.00. Doz., $10.00
GOLDEN GATE (R-1915)—Tall, vigorous. Large, showy yellow, finely ruffled.
   ..... Each, 25c. Doz., $2.50. 100, $18.75
IOLA (1916)—Tall graceful. Many medium-sized blooms open at a time. Deep
  yellow. Very fine ...... Each, 25c. Doz., $2.50
LINTON (R-1916)—Tall. Salmon-rose petals, bordered deeper. Lower petals
   golden veined rose. Very choice and very ruffled..... Each, 35c. Doz., $3.50
MIDSUMMER DREAM (1918)—A large, beautiful geranium red. Showy, fine....
   ..... Each, 25c. Doz., $2.50
MYRA (1918)—A new and giant flowered Prim. Hybrid. Deep salmon over yellow
   ground. Tall, slender stem. Yellow throat with pink lines. Exquisitely showy,
  grand ...... Each, 50c. Doz., $5.00. 100, $37.50
NOPAL (1918)—Purest soft salmon rose-pink. Very delicate and refined......
   ..... Each, 35c. Doz., $3.50
NOVA (R-1918)—Large, broad, soft canary, delicately blushed. Extra grand.....
  Each, 50c. Doz., $5.00
NYDIA (1918)—Small flowers. Bright salmon-rose. Graceful, dainty.......
   ..... Each, 30c. Doz., $3.00
PRIM (1916)-Taller and much stronger than the Species Primulinus, and much
  PRIMULINUS SPECIES—This is not, strictly speaking, a variety, but a species
   which is native in South Africa, and is the best pure all-yellow of the species.
   ..... Each, 10c. Doz., $1.00. 100, $7.50
PRIMUNELLA (R-1915)—A grand ruffled butterfly, orchid-like flower. Beautiful.
   ..... Each, 75c. Doz., $7.50
RAMONA (R-1918)—Dainty yellow. Golden throat. Beautifully ruffled......
   ..... Each, 50c. Doz., $5.00
REGULUS (1916)-Tall. Large flowered, richest orange salmon with delicate
  yellow. Extra grand ...... Each, 20c. Doz., $2.00
RIGEL (1915)—Tall, softest salmon blush on delicate yellow. Extra fine......
  ..... Each, 25c. Doz., $2.50
ROANOKE (1916)—A vigorous and large, rich, yellow Prim. X. K. Glory. Very
  fine..... Each, 20c. Doz., $2.00. 100, $15.00
RODANO (1918)—Soft sulphur. Often all petals penciled pink. Pretty......
   ..... Each, 20c. Doz., $2.00. 100, $15.00
```

ROSALIA (R-1918)—Yellow, blushed orange. Lower petals golden vellow. Magnificent Each, \$1.00. Doz. \$10.00 awarded this variety by Mass. Hort. Soc'y, illustrated on page 28. SEDAN (R-1916)—A fine ruffled Primulinus Hybrid. Rich yellow with crimson SENECA (1916)—Almost transparent, faintest wine-pink, on a delicate yellow ground. Distinct Each, 25c. Doz., \$2.50, 100, \$18,75 SIRIUS (R-1915)—Large, dark salmon, rich throat. Fine ruffled Primulinus hybrid Each, 15c. SILVIS (1916)—Deepest salmon red. Fine throat. Very large and showy..... Each, 25c, Doz., \$2,50 SPICA (R-1915)—A richly colored and finely ruffled Primulinus hybrid...... Each, 20c. Doz. \$2.00 TOPAZ (1918)—Finest salmon pink and buff. Very refined and elegant...... Each, 30c, Doz., \$3,00, 100, \$22,50 TUPELO (1916)—Tall. Large blooms, many open. Deepest canary yellow. Fine ULRICA (R-1918)—Much like "Elegant Beauty." A little lighter in color. Beautiful Each, 35c. Doz., \$3.50 YOEMAN (R-1918)—Large, pure salmon pink. A finely ruffled variety......Each, 25c. Doz., \$2.50 ZENOBIA (1918)—Showy orange red. Lower petals lighter, with orange red

COLLECTION OFFERS

- Collection No. 26—Entire collection described on pages 33, 34 and 35, 51 varieties (value \$15.45), for \$12.00.
- Collection No. 27—Omitting all valued at 75c and above, 48 varieties (value \$12.70), for \$9.75.
- Collection No. 28—Omitting all valued at 35c and above, 39 varieties (value \$8.95), for \$6.50.
- Collection No. 29—Alice Tiplady, Altair, Argo, Canopus, Dexter, Faun, Fire Fly, Gladness, Golden Gate, Salmon Beauty, Seneca, Tupelo, Yoeman, Zenobia and all other varieties in this list priced at less than 25c, 27 varieties (value \$5.80), for \$3.75.
- Collection No. 30—Omitting all valued at 25c and above, 13 varieties (value \$2.30), for \$1.75.
- Collection No. 31—Entire collection listed in this catalog, excepting late flowering varieties on page 4 and the variety Fern Kyle mentioned on page 3, including 86 ruffled, 197 plain petaled and 75 Primulinus Hybrids, an almost endless display of beauty and color variety, 358 kinds in all (value is \$177.05) for \$145.00.
 - Note—When ordering collections, please order by number.

See special offer for early orders on pages 2 and 3.

Gladioli in Mixture

O SECURE the greatest variety and beauty from Glodioli, it is absolutely necessary to grow them in mixture also. Anyone who has ever had the pleasure of visiting a first-class collection grown in mixture will appreciate this statement. If originators find their highest enjoyment, as they do, in growing vast numbers of kinds together, will not the average grower for pleasure derive an equal benefit from growing them in the same way? If I were permitted to grow only a limited number of kinds, each under name and number, or many varieties in a mixture, I would certainly decide in favor of the latter method; for in this way only is it possible to secure and enjoy the almost limitless variety and beauty to be found among the Gladiolus.

"Ideal Mixture" (New 1922) is a selection of the best, from hundreds of thousands of my own recent productions of large flowering kinds, and contains hundreds of varieties equal to the best named. In their production only the finest varieties, such as "Mrs. Frank Pendleton" and thousands of our most select separately growing varieties were used, resulting in a strain of the greatest vigor and variety of forms and beautiful colors. In colors, every magnificent and gorgeous combination conceivable is represented. The richest of self-colors, blotched, etc., the finest light and white and pastels of every tint or color. It also embraces numerous ruffled varieties and some of our choicest named. Each season we add many more fine kinds (all our own) to this selection. To secure the best value and variety it is necessary to obtain a considerable number of bulbs, and therefore I have decided to offer my customers and friends this season an opportunity to purchase a large and beautiful collection at a price within the reach of all. Many very fine new varieties have been added to this mixture for 1922, making it about the equal of what was the Glory mixture last year.

1000 for \$45.00. 100 for \$5.50. Dozen for 85c. 250 at the 1000 rate. 25 at 100 rate. 6 at the dozen rate.

"Glory Mixture" (New 1922). An entirely new mixture composed of all new varieties and one which can not be equaled elsewhere at any price. Many very choice ruffled varieties are included, some of which if sold under name would cost from \$1.00 to \$3.00 each. It consists of more than 4500 different sorts. Over 2000 extra fine new varieties having been added this season, making it indeed a Glory mixture.

1000 for \$95.00. 100 for \$12.50. Dozen for \$1.65

New Primulinus Hybrids In Mixture

"Grand Mixture" (New 1922). Our old "Grand Mixture" has been entirely eliminated and replaced by what was last year our "Orchid Mixture," giving you a wonderful assortment of this beautiful new Butterfly Gladioli (This change virtually amounts to a big reduction in the price.) The most beautiful and delicate pastel tints are to be found in this collection and no other race of Gladioli contains such harmonious blendings as do the Primulinus Hybrids.

1000 for \$45.00. 100 for \$5.50. Dozen for 85c.

"Orchid Mixture" (New 1922). An entirely new and very superior collection of many magnificent kinds is now the "orchid mixture." Many of our finest separately growing varieties, (Some of them to be offered later under names), are included. Among them are fine new ruffled varieties and many rare and beautiful new shades. Truly "as beautiful as orchids." I am sure this collection (offered this year for the first time), will more than please my most critical patrons, and prove a revelation of the advance being made in this popular new strain. Try at least 100 bulbs of these this year.

1000 for \$95.00. 100 for \$12.50. Dozen \$1.65.

Caution: Do not name any variety from the above 4 mixtures as quite a few of them are yet to be named by me in the next few years.

P. N. ELMORE, Gladiolus Grower, Wash., writes:

"I can truly say that I never saw finer flowers in my ten years that I have grown Gladioli, and I have had some fine ones. Your mixtures beat them all, and only one bulb that did not grow."

Please Read These Notes Before Ordering

Special Collections will be made up for any of our customers who may wish our aid in deciding what to plant. Nothing can make a finer present to a friend than a collection of choice Gladioli. Please state choice of colors, varieties you have grown and amounts you wish to buy.

If no objection, we will substitute a similar or better variety when out of kinds ordered.

Do not hesitate to send small orders, even if but for a single bulb.

I do not sell seed from any of our gladioli nor small size bulbs.

In collections we reserve the right to substitute when out of a variety. The stocks are not of the same size and late in the season some may be entirely exhausted when your order arrives.

Collections can only be furnished as described, at prices given. No alterations can be made in the collections described and offered in this catalog.

No mixture of all ruffled varieties is offered in this catalog.

Where offered by the dozen, six may be ordered at half the dozen price. Less than six at single rate. Where offered by the hundred, fifty will be supplied at the hundred rate. Less than fifty at the single or dozen rate. Exception—Twenty-five may be ordered at the hundred rate in our four mixtures described on page 36.

Safe arrival of bulbs is guaranteed to any point within the United States and Canada. Shipments will be made any time after February 15th, within these two countries.

Foreign shipments. We can not guarantee safe arrival to foreign countries (except Canada) due to the delay and risk in transit which is entirely beyond our control. Special effort will be made to ship in proper season, to send only first-class, well cured bulbs, also to pack well, but we can not replace any stock arriving in unsatisfactory condition. From reports received from foreign customers we find that about 90% of shipments arrive safely and in good condition.

The endless color combinations and remarkable shades and tints in The Gladiolus are unsurpassed by any other flower.

Pon't forget that the children would enjoy a few of our wonderful gladioli for their garden. Have you thought of teaching them the art of making the home and its surroundings beautiful? It will prove very valuable to them later in life.

Send orders early to be more certain of getting all varieties wanted. Late orders coming during our planting season may be delayed a few days.

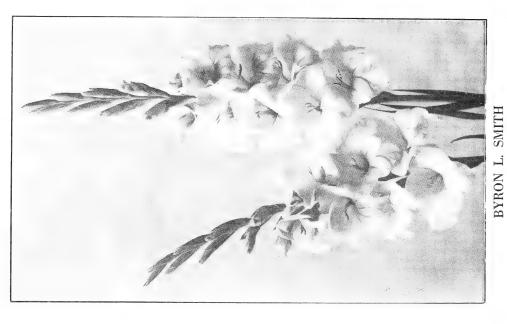
As the originator of the Ruffled Gladioli I am in a position to offer my customers a far larger and better collection of these beautiful new types than any other grower whose varieties of this form has only been produced from mine. As all the varieties listed are good to very good propagators, our customers can be assured of full value. Even though you may think some of the prices a little high, the increase in two years makes the first cost insignificant.

l have on my grounds thousands of distinctly different varieties growing separately. The varieties offered in this catalog have been selected from this collection. From year to year as the many other choice ones increase in quantity new ones will be added to these lists.

Terms. Remittances must accompany all orders. Unused U. S. stamps will be accepted in payment of orders amounting to less than \$1,00.

All goods are sent prepaid at prices quoted in this catalog.

References. I refer by special permission to the following Goshen banks:—Elkhart County Trust Company, City National Bank and Salem Bank. Also R. G. Dunn & Co.'s Commercial Reports.







Proof of Superior Gladioli

WHAT OTHERS THINK OF OUR VARIETIES

W E are as pleased with the many fine testimonials sent us, as our patrons are with their success with our beautiful flowers. The name Kunderd stands for the highest in gladioli, as "Kunderd's Gladioli" has become a familiar phrase in the finest gardens all over the world. It is a great pleasure to offer, each year, some new testimonials from some of our patrons. After all, it is of greater importance to you what our customers say, rather than to be entirely dependent on our own representations.

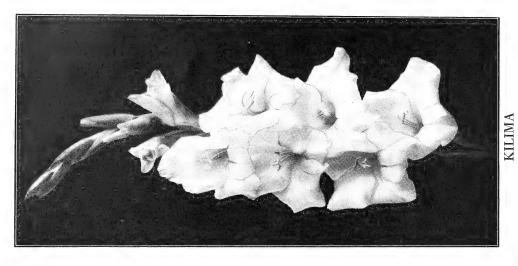
LUTHER BURBANK, "The Wizard of Horticulture," Santa Rosa, Calif., writes under date of Nov. 22, 1910: "The Ruffled Gladiolus which you sent me last spring (Kunderdii Glory) bloomed nicely this summer. It is a fine light color, elegantly ruffled, and a strong, healthy grower. The Ruffled Gladiolus, like the Ruffled Sweet Peas, have a refined appearance which the common flat ones do not possess."

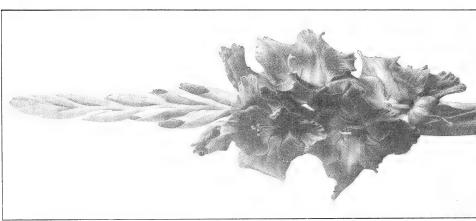
MATTHEW CRAWFORD, Author of "The Gladiolus" and "Dean of the Gladiolus Fraternity," whose judgment is referred to by all who know him, says, writing from Cuyahoga Falls, Ohio, under date of March 11, 1910: "I have grown Kunderd's New Ruffled Gladioli for several years and am charmed with them. They are immensely more beautiful than the plain." Again: "Mr. Kunderd was the first man in the world to produce Ruffled Gladioli by scientific methods."

- DR. W. VAN FLEET, Expert in charge of U. S. Department of Agriculture, Bureau of Plant Industry, formerly the great Horticulture Editor of the "Rural New Yorker," Originator of Princeps, etc., says: "I am glad to hear of your continued success with the Ruffled Gladiolus. The one you sent me two years ago (Kunderdii Glory) is very beautiful indeed; good color, fine spike and substance, and exquisite finish."
- MESSRS. T. C. THURLOW'S SONS, West Newbury, Mass. ("The Peony Kings"), on December 25, 1915, wrote: "We liked the Gladioli you sent us last spring very much, especially the 'Kunderdii Glory' which is one of the finest light-colored ones we have ever seen."
- L. MERTON GAGE, Ex-Secretary of The American Gladiolus Society, wrote us in the summer of 1909: "'Ruffled' is in bloom. 'Grand' does not begin to express it. It is the 'sans pariel' of all Gladioli."
- S. E. SPENCER, Woburn, Mass., Member of The American Gladiolus Society, says: "They are the wonder of the whole neighborhood," etc., etc.,
- B. H. SPENCER, Mass., 1920, writes: "I hope next spring you will be able to supply bulbs, for there are none I know of to compare with them. People visiting my garden this summer picked your varieties out every time and asked why such a difference in size of growth and bloom. My answer: The race Kunderdii, properly grown and true in name and quality."
- S. GOLDBERG, Mich., Oct. 14, 1921: "I have never seen such beautiful flowers as those produced from your bulbs. In fact, it is impossible to express in words their beauty."

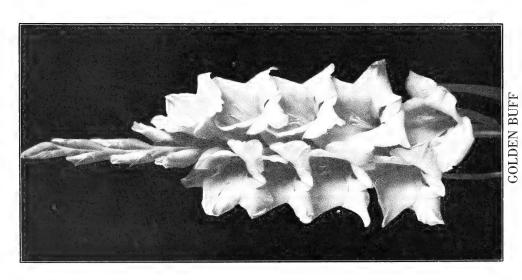
THOMAS H. WILES, Conn., Sept. 21, 1921: "At the State Fair at Hartford I was awarded a special medal for superior merit for a vase of your gladioli, 14 spikes, almost 4 feet high."

MISS K. KENT, Ill., Sept. 21. 1921: "The Ruffled Gladioli I got from you last spring were certainly a great surprise. Each more beautiful than the other until we finally decided on so many favorites that I can not name them all. I will never have any but Ruffled Gladioli, they are so much prettier than the others. The Primulinus you sent were wonderful both in size and color. I will send you another order next spring."





PURPLE GLORY



CHARLES W. ANDREWS, Penn., Sept. 12, 1921: "The gladioli bulbs I bought of you last spring did remarkably well. Alton, Smiles, Creston, Nymph, and in fact all of them were finer than any I had ever bought and I have been growing gladioli ior over 25 years. My advice to anyone who wants the finest gladioli is get them of Kunderd."

DR. MARK D. HOYT, Montana, Aug. 19, 1921: "First I want to say that the 230 bulbs that I bought of you last spring have everyone grown beautifully and the blossoms are the wonder of the town. I have over 1,100 gladioli and some 700 or 800 varieties. Those I purchased from you are so far ahead of the others, that I am tying a white string on my old ones in order that I may cull them out when they are dug this fall."

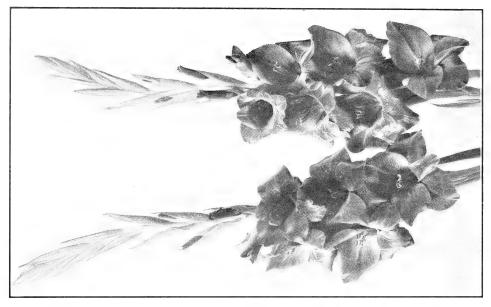
C. M. SCRACE, Calif., again, Aug. 26, 1921: "The largest flowers in my beds this year were your Corunna, 6 in.; Mrs. Pendleton, 6 in.; Old Glory, not quite 6 in.; Purple Glory, $5\frac{3}{4}$ in.; Groffs' Dawn and Afterglow, $5\frac{1}{2}$ in.; and Lomoine's Charlemagne, 6 in. These were all larger than any of's I have. The tallest and strongest growers were your Purple Glory, Hollyhock, E. J. Shaylor, White Pendleton, the English Golden Measure, Groff's Evolution and the French La Triomph.'s Giants could not get up to even look over these fellows shoulders."

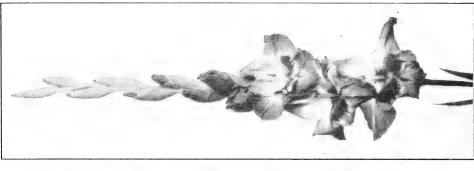
MISS LENA RICE, Ontario, Canada, Aug. 25, 1921: "The bulbs I purchased from you last spring are now in bloom, and are magnificent, far surpassing anything we ever saw before."

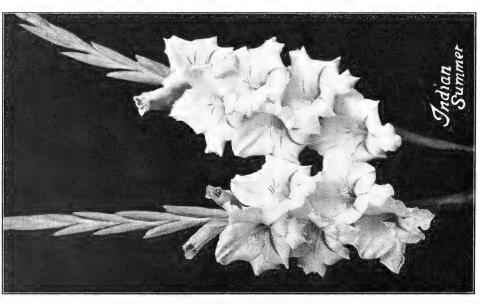
- E. V. FOWLER, Ohio, Aug. 25, 1921: "The gladioli which I obtained from you have created a sensation here. The blooms have been of wonderful size and beauty."
- J. F. CARR, Ontario, Canada, Aug. 5, 1921: "I think it my duty to tell you what success I have had with the Gladioli bulbs I purchased from you. To be frank your bulbs beat anything I have ever seen, they more than please. I have other higher priced American bulbs growing by the side of your stock but believe me they are seconds. I wish to thank you, Mr. Kunderd, very, very much for what you have done for this flower."
- W. S. GUTHRIE, Oklahoma, July 13, 1921: "There is no discount on Kunderd's Gladioli. True I have some beautiful kinds from other growers, but yours somehow stand at the head. E. J. Shaylor is now in bloom, five feet high and extremely beautiful. Your mixture is graded as follows: xxxx plus A A 1 plus 100% plus, grand beyond compare."
- D. L. BOARDMAN, Mich., Feb. 11, 1921: "I have bought Gladioli from Maine to Calif. including some of's very high priced varieties and I am frank to say the latter should not be mentioned the same day with "Kunderd" in connection with Gladioli. No comparison in size or colors with your grand varieties."
- GEALE WOODALL, Ontario, Canada, Aug. 10, 1921: "You certainly are the man that put Glad in Gladiolus. I thought I would drop you a line to show you how satisfied I am with the bulbs you sent me. I have many single blooms over $5\frac{1}{2}$ inches across. The town is wild over them. I don't think there is a person in town that has not seen them. Several have told me that if they could get such bulbs as mine, they would not take theirs out of the ground this fall."
- THOS. I. COUSINS, Mich., Aug. 12, 1921, in a postscript says: "I ordered quite a number of bulbs from a large advertiser: while some are very good, I consider the average far below yours. My \$ seem to go farther in buying quality when placed with you."
- H. E. GEIGER, Pa., Aug. 2, 1921: "Last spring I bought some of your Gladioli and they surely were beautiful. A florist asked me where I got my bulbs and when I told him he said, "That's the place to get them." Next year I am planning to grow a lot of Gladioli and, as I want the best, I intend selling my others and growing yours exclusively."
- MRS. A. H. AUSTIN, Ohio. The famous authority, writer and grower of Gladioli, writes July 26, 1921: "I am writing to tell you how much I admire your beautiful 'Marie Kunderd.' It is certainly a most worthy variety."



One of Our New, Very Late Flowering Race

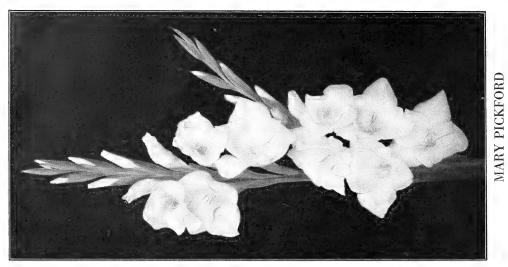


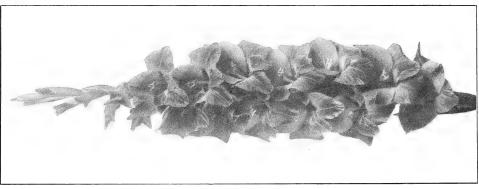


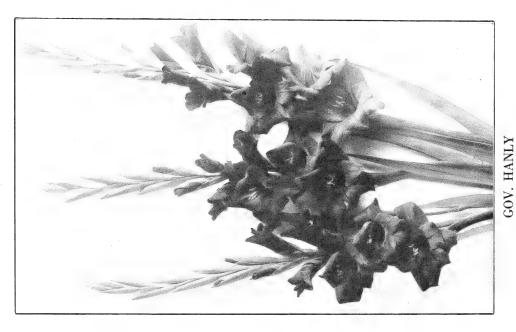


- W. M. HALE S. C., July 16, 1921: "I purchased 1,500 Gladioli bulbs from different growers this year, but those from you were by far the best of all."
- WILLIAM GILDERSLEEVE, Mich., July 20, 1921: "Mr. Kunderd, I will tell you that if all the people could see my flowers from the bulbs I bought of you, you surely could not near fill all your orders."
- MRS. GRACE BAIRD, Calif., June 25, 1921: "The Gladioli I got from you this year have been wonderful. Only 2 of the 92 varieties I have of yours were not what I had hoped they would be. My 'Anthony B. Kunderd' is wonderful, words cannot express its beauty."
- W. E. MORGAN, Ky., July 15, 1921: "The Gladioli bought of you this spring are now in bloom. 'Arlon' is 4½ feet tall. Your success is not surprising."
- B. HALSEY SPENCER, Springfield, Mass., July 26, 1921: "There are many beautiful standard varieties of Gladioli but yours are in a class by themselves. A neighbor after seeing those I bought of you threw all of his away and is going to begin all over again. Several others will follow suit."
- H. C. BLAND, S. C., July 7, 1921: "I am so enthused over the Gladioli I bought of you that I expect to plant a great many next season."
- MRS. DORA A. WELLS, Wisconsin, July, 1921: "I speak highly of your Gladioli to all of my friends and advise them to buy all their bulbs of you."
- W. R. JOHNSON, Ill., May 31, 1921: "Up until three years ago I spent ten years in California and thought the finest Gladioli grew in that section but evidently you have forgotten more about the Gladiolus than they ever dreamed of."
- E. W. ROBERTS, Mich., July 17, 1921: "While the beauty of your Gladioli is fresh before me, I wish to thank you for the pleasure they have given me. I consider them as a gift from your years of hard work and not as a thing purchased. It is impossible at this time to measure the importance of your work with this flower, but it looms up greater as the years pass by. Again I thank you for the thrill of beauty as it passes on."
- PAUL LE HARDY, Porto Rico, May 19, 1921: "The glory of my Gladioli is on the wane; I am very, very sorry! One by one the stalks came up and soon began to regale my eyes with beautiful blossoms. Mr. Kunderd, what praise can I give to Purple Glory and to Challenger? You know them, praise from me would be tame, they are chieftains. Your list is replete with great ones. I will want to add to my collection. I wish you, with renewed thanks, continuation of success."
- J. B. DAVIS, Alabama, May 13, 1921: "Please allow me to express my appreciation for the fine Gladioli bulbs that you sent me this year. I never saw more beautiful than they produced. Crinkles is the prettiest Gladiolus I ever saw with Purple Glory a close second."
- MRS. E. N. NELSON, N. J.: "In justice to you I wish to express my appreciation of your wonderful gladioli. Two years ago I ordered from you and they are all that one could wish. Henceforth all my orders for gladioli will be placed with Mr. Kunderd and I will be glad to recommend you to my friends."
- MRS. A. S. THAXTER, Calif., Jan. 5, 1920: "I have not had very good success with the Gladiolus, but everybody says, 'just order from Kunderd and you will have Gladioli,' so I am going to try again."
- WM. H. SAPP, Md., Jan. 11, 1921: "I want to say that the testimonials in your catalog, also the booklet you sent me last year, speak none too highly of your wonderful flowers. You deserve all the praise the world can give you for such beautiful creations."
- JAMES H. McCALLION, Rhode Island, 1920, writes: "I am sending you the list of bulbs selected for our garden this summer, and am afraid you'll have to tell me you really can't send them to have me believe it. But I want Kunderd bulbs, and if I have to wait for them another year, I will, as now that I know the difference, no others would satisfy."
- JAMES ALLEN, Ontario 1920, writes: "Last year I was unable to get any of your Gladioli and I am now looking at what I got from elsewhere and am very much disappointed at the result. Will you have some for sale this year? I am wishful to get my order to you early so as not to be disappointed again."



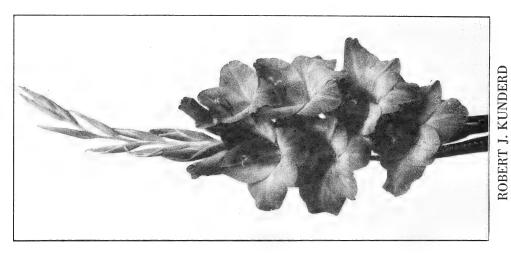


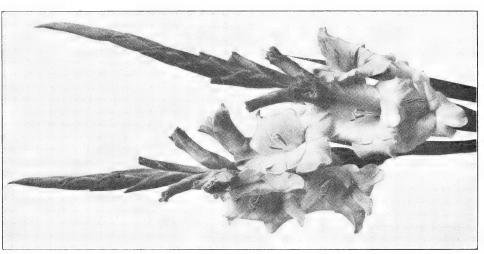


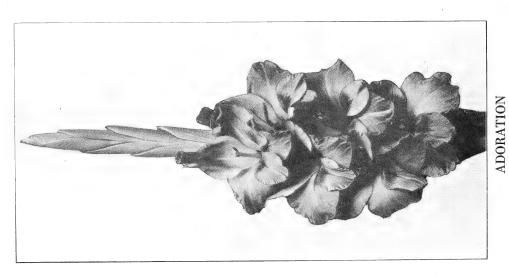


ALBERT DEDE, Ontario, 1920, writes: "I sure enjoyed the visit to your farm. I took note of many varieties that I must have. I have before me a wonderful spike of 'White Ivory'. 'Gov. Hanley' is doing fine this year, also 'Creston', 'Kasson', 'Nampa', etc. A surprise this year was 'Snow Flake,' as beautiful a white as I ever saw and a large flower."

- JOHN E. SNELL, Maine, 1920, writes: "I never have found any 'rogues' in the bulbs bought direct from you."
- N. W. WARNER, Vermont, 1920, writes: "In years past I have purchased Gladioli corms from you. They have proved very satisfactory and ahead of anything procured elsewhere."
- S. W. ROGERS, Mass., 1919, writes: "I only had six bulbs from you last year, but they were so fine I want some more and am sending my order early. \$12.50."
- WM. A. WILBUR, Mass., 1919, writes: "In the spring I received from you some very fine bulbs. They bloomed and we never saw such blossoms. They have a beauty all their own."
- I. L. BAUMGARTNER, Iowa, 1919, writes: "Words fail me in expressing my pleasure raising the Ruffled Gladioli which I ordered from you last spring."
- MRS. E. H. BARNES, Fla., 1919, writes: "Last March I ordered eighteen new Ruffled varieties. Each one of the eighteen was a gem and a delight to the eye. I shall order more for next spring."
- E. L. STONEBROOK, Gladiolus Grower, California: "We are enjoying your Ruffled Gladiolus, and the 'Pendleton', which are in bloom. Your creations are superb."
- J. G. BURROWS, Landscape Gardener and Florist, Onset, Mass.: "You have erected a monument to your memory that will live as long as history, and far outshine the great monumental or memorial Woolworth building in New York City."
- E. T. BARNES, Expert Dahlia Grower, Spencer, Ind., (National Co-Operative Show Gardens), writes: "I have often heard and read of Kunderd's Gladioli, but I did not expect to see as extensive a place as you had. You are certainly deserving of all the credit you have received and more."
- HAROLD J. CHILD (Decorator), Toronto, Canada, writes October 8, 1917: "The season is almost over, although some of your Gladiolus are still blooming. I cannot find words to express the great pleasure I have had for two months in seeing your Gladiolus come into bloom, each seeming to surpass the previous ones. The flowers were wonderful, the colors heavenly. I have many other varieties, but they cannot compare wth yours. I am waiting for next spring when I shall certainly get many more from you."
- C. M. SCRACE, Los Angeles, Cal., writes under date of Feb. 8, 1917: "From my trials of your bulbs last year I should say your new varieties do exceptionally well in our climate. Under just ordinary care (without use of fertilizer). 'Old Glory' gave blossoms six inches across, 'White Glory' five inches. 'Youell's Favorite', the eighth flower out, six inches across, 'Red Amaryllis' six inches, etc."
- MRS. C. A. BRIGGS, Sacramento, Cal., writes under date of August 30, 1917: "This has been a summer of glorious surprises in my Gladiolus garden. Such a wealth of beauty among the new sorts I bought of you. I did not believe it possible to produce another Gladiolus as beautiful as 'Mrs. Frank Pendleton', but you have done so, not once but several times. 'Mrs. Dr. Norton', 'Byron L. Smith', 'Mona Lisa', 'Rose Glory', 'Mary Pickford', etc., are in the same class. I will surely send you another and larger order next year."
- REV. J. R. LAWRENCE, Vermont, 1917, writes: "The Gladiolus you sent me were extra fine. I appreciate your kindness in sending me such splendid stock. Would not hesitate to commend it to any one looking for the best in Gladioli."
- REV. F. J. JANSEN, St. Vincent's Rectory, Elkhart, Ind., writes: "The bulbs of Gladioli I bought from you last spring were a revelation to me. The ruffled edges, the magnificent size of blossoms, and the delicate coloring, I deemed impossible of attaining. I have sixty different roses blooming in my yard, and while they make a fine appearance, I think the Gladioli make a more gorgeous showing."





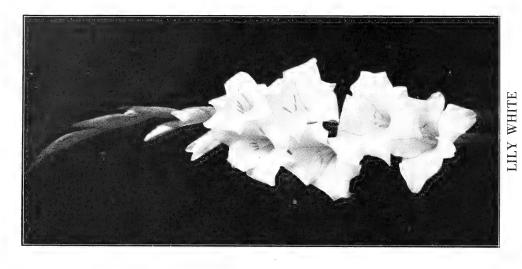


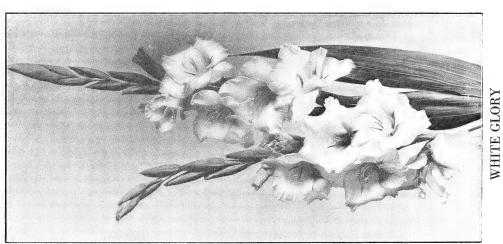
YOUELL'S FAVORITE

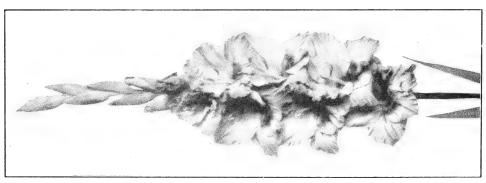
- P. W. STEUHMER, Nurseryman, Wis.: "I like your mixtures. They cannot be improved. You certainly have my praise and wonder. Every one is a prize and no end of colors."
- E. COLVIN, Wash., 1917, writes: "Please do not forget me when sending out your next catalog. Last spring I sent \$5.00 each to several Gladiolus growers, leaving each to send their choice. I received various amounts, some as high as 100 bulbs. You sent me one each of nineteen (19) varieties. I planted each shipment by itself, and you caught my idea exactly, as each bulb turned out to be a beauty, and I had more real pleasure and learned more from the nineteen than from some shipments that had 100."

ERNEST PHILLIPS, Superintendent to Commodore E. T. Gerry, Esq., R. I., 1917, writes: "It is with great pleasure that I write you regarding your strain of Gladiolus. This is the second year that I have tested out your stock alongside of several others, and they certainly prove far superior in growth and flower. I shall grow your stock only in the future, and you certainly deserve great credit for your work. I wish you every success."

- W. H. PURPLE, N. Y., 1917 (after visiting our farm), writes: "I came away from your place with the impression that it was probably impossible to improve on your methods of handling Gladiolus. I did not believe there was anybody who could keep a field in such excellent condition and everything so carefully labeled and tagged and free from rogues as your fields appear to be. This is doubtless one of the primary reasons why your bulbs always please as well as the fact that you probably have the best bulbs on the market."
- MRS. GRACE B. ROBERTSON, Wash., 1917, writes: "I have been admiring the beautiful Gladiolus you sent my sister last spring, and can hardly wait until I have some gorgeous beauties like them for my own garden. I think a man who has given so much beauty and joy to the world should be remembered by coming generations. He needs no greater monument than the beauty he has created. I am just one humble individual, but I do appreciate the gorgeous beautiful flowers that come from the bulbs you send."
- W. W. WILMORE, Gladiolus Specialist, Colorado, 1915, writes: "I have watched your new productions with great interest and heartily congratulate you upon your success. I have grown several of your varieties and as yet I have the first one to see that I would not consider first-class. In fact, I think so much of the ruffled type that I have taken the liberty of having an etching made which I have adopted as a letter-head."
- WM. J. STEWART, Editor and Manager of "Horticulture", Boston, writes: "The Gladiolus bulbs you sent me did splendidly, and the beauty of the flowers has enthused the neighborhood. They will be satisfied next year with nothing short of the finest new sorts."
- N. LEON WINTZER, Gladiolus Grower, West Grove, Pa., wrote us May 22, 1916: "Your kind letter of the 17th is noted, and I only wish I could take to myself the expressions therein, but you evidently have confused me with my father, Mr. Antoine Wintzer, who is the producer of many of the newer varieties of cannas: I passed your good words on to my father—coming from Mr. Kunderd they mean a great deal to him."
- JOHN I. BEGGS, President of Wisconsin Light, Heat and Power Co., Milwaukee, Wis., writes under date of March 30, 1916: "Last year I set out at my country place, Beggs Isle, Oconomowoc, Wis., over 3,000 Gladiolus from many different sources and of many varieties, and I have no hesitation in stating that those received from you were the best of the entire lot, the bulbs being large and the blooms and foliage profuse and highly attractive."







ALTON

HENRY YOUELL, Secretary of Am. Gladiolus Society, and who has had a lifelong experience with Gladiolus (Mr. Youell's father was a famous English nurseryman and the introducer of "Brenchleyensis"), writes: "I cannot express the pleasure your letter gives me in hearing that after your great fight you have won out, and are reaping the benefit of your wonderful productions. Without flattery, no one has produced such beautiful flowers as you have, and the name 'Kunderd' will be handed down with honor to future generations, as the originator of our most beautiful creations. Believe me when I say that among all the men in the trade that I know there is no one I would rather have fortune smile upon than yourself, for you have made a most honorable up-hill fight, so very different from some you and I know. Long may prosperity smile upon you and yours."

S. F. MORTON, of the Eve. Express Pub. Co., Portland, Me. (also member of the American Gladiolus Society), says: "I never saw such fine flowers in a mixture. I had bulbs from all over the world, but with those you sent me and others of your growing I had from other dealers, your bulbs showed the most beauty and variety, and were wonderful in their vigor and productiveness. Two of your varieties alone were worth the whole season's work, but as the summer progressed and 'Myrtle', 'Summer Beauty', and many others that had your name attached, came along, I was really proud that on this side of the water we could hold our end up so well. I was especially struck by the showing yours made alongside of others, not only in beauty and size of blossoms, but in the sturdy health of your plants which seemed to be universal."

REV. MAGEE PRATT (the Author), Conn., writes: "My Dear Mr. Kunderd:—I thought that I ought to report to you, as the Gladiolus season is over with me. I have never had finer flowers than this year, and never saw so fine as yours before. I have known the flower for forty years, have seen the best in England, grown from the finest in Europe, and your productions excel any and everything in the Gladiolus family. In fact, they have spoiled my own for me. I have a mixture made up of the best varieties I could buy in large assortment, but it is far inferior to yours, and the worst of yours is this: that its superiority is so self-evident that my own look mean. Only a few of my named varieties, such as 'Panama', 'Rosella', etc., should be allowed in the same garden as your productions."

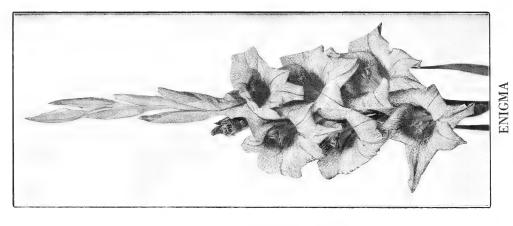
Recently he has written again: "You have made astounding progress since I quit the business, five years ago."

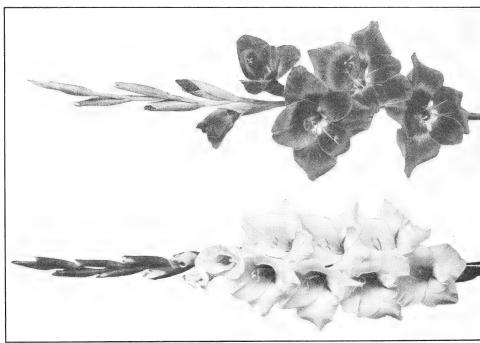
H. E. MEADER (elected President of The American Gladiolus Society, 1919). N. H., wrote 1916: "In several years' experience with your methods, permit me to express my appreciation of you as a straightforward business man who can always be depended on for a square deal, most generously measured. In a selected collection of the choicest varieties from the most noted specialists, both here and abroad, your exquisite creations proved the premier attraction of my gardens, and I have exhibited them to my entire satisfaction at several of the largest shows, where they received highest honors."

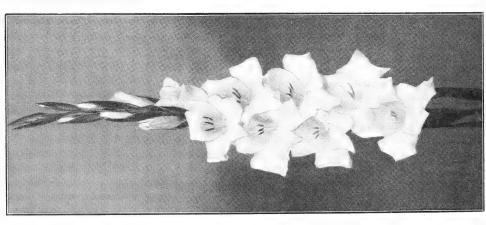
REV. GEORGE SCHOENER (the great Rose Originator), wrote in 1917: "My Dear Mr. Kunderd:—The flowers from the bulbs you sent me last year were exceedingly beautiful, and I may well say excel all other Gladioli. You surely reign supreme in this branch of horticulture."

Later he wrote: "I cannot help but write you at least a few words, that the Gladioli which you sent me are now in full bloom. They are, one and all, a revelation of beauty. I must admit that the Gladioli surpass even roses in fine shades and penciling."

J. H. SKINNER, Minn., 1916, writes: "The bulbs I got from you last spring were the most successful I ever planted. The flowers were more beautiful than any floral catalog. This means much in these days of fancy printing."







MISS U. S. A.

BLACK PANSY

SNOW BOY

- F. G. YULE, Vice-President of C. S. Harrison's Select Nurseries, Neb., writes: "I have had the Gladiolus on my grounds for a number of years and was perfectly satisfied with my flowers until I saw yours; then I made up my mind I had never yet seen Gladioli. The nursery considers their Gladiolus aquisition as so much 'pure gold'."
- E. T. FLANNEGAN (Gladiolus Specialist), Cal., writes: "There is no comparison between your Gladioli and older kinds, for your new varieties are incomparably the best."

Again: "It is a real pleasure to deal with a man like you. And I am not flattering you. I got more than value received every time."

J. M. ADAMS, Conn., writes: "I have made out a list of new varieties which I desire, but it is hard to choose, for all the varieties you put out are full of merit. I certainly think your originations are far ahead of all others."

FOREST R. POPPE, Attorney-at-Law, Minn., 1918, writes: "I feel that in fairness to you it is fitting that I tell you what success I have attained with the bulbs which I purchased from you. While I have for years past grown Gladioli and always felt that what I had were as good as could be had, I have started to cull out my former ones with the fixed purpose of keeping yours only, as the same are far better than any I have seen. I thank you for past favors and am awaiting your next list."

REV. W. G. MAUCH, Iowa, 1918, writes: "Your Gladioli have been a grand display this summer. They were very tall (some $5\frac{1}{2}$ feet) and sturdy, the flower spikes long and the blossoms so delicate and rich in color and shading that we felt rather rich in having such a collection in our garden, and their cost is insignificant when compared to the pleasure we derived."

A. RORDAME, Utah, 1916, writes: "I have had in mind to write you for a long time my appreciation and admiration of the lovely Gladioli that I obtained from you. They were truly the glory of my garden."

JOSEPH J. KRUPA, Ill., one of the foremost gardeners of the Central West and a man thoroughly versed and schooled in European gardens, writes in 1917: "The trip to your place in Goshen will certainly remain with me a pleasant memory as long as I live. What I saw was beyond all my expectations. It certainly must be a source of pleasure and satisfaction to you to have developed your place to such proportions and achieve such splendid results. The acres of Gladioli fields with riots of colors and all the magnificent new introductions was a sight never to be forgotten. I can only heartily congratulate you on your achievements and wish you all the success in furthering and developing the magnificent flower which has found its way to every true garden and flower lover's hearth."

ALBERT J. COOKE, Head Designer for Nye & Wait Corp., N. Y., 1918, writes: "I am writing you to tell you how much I appreciate the selection you made for me and for your liberality. They were the finest and cleanest bulbs and the finest flowers I have ever had the pleasure of raising, and I have dealt with every one of any account in the States. The Gladiolus is my favorite flower. I am asking you to kindly make another selection for me this year. All my friends who saw my Gladiolus the past year were surprised at the vigor and beauty of your ruffled varieties. They are away over the top of anything else in the Gladioli world. In looking over your fine catalog and reading the testimonials of your customers I thought that if they would only advertise your stock to all their friends you would have to enlarge your farm to take care of the orders."

MISS GRACE RESHORE, Mich., a well-known amateur, writes: "Your Gladiolus have no equal. They certainly are in a class by themselves."

Planting, Culture, Storage, Etc.

A LTHOUGH no flower gives more satisfaction than the Gladiolus, with ordinary care and culture in average soils, it readily responds to high culture, and the superior blooms produced by special attention amply repay for the additional care. Only those who have seen the Gladiolus at its best can realize the vast difference between those produced by first-class methods, and those less carefully grown. We strongly advise our friends to employ only the best cultural methods possible under their conditions.

PLANTING AND CULTURE. It is best, if possible to use new location, or soil, each season, so that bulbs are not planted oftener than every third year in the same soil. It is advantageous to spade in a good covering of manure late in the fall preceding the plantings to follow. The richer the soil and better the care and culture, the better the results will be. In spring, when the soil is in proper condition, spade deep and pulverize thoroughly. At planting time, only well rotted manure or high grade potato fertilizers should be used. For long blooming seasons, plant at intervals of about two weeks from first garden-making time until the middle or latter part of June. Bulbs can be planted four inches deep and over in mellow soils, and four to eight inches apart in the row. The deeper planting will help to keep the plants from falling over at blooming time. Liquid fertilizer or prepared sheep manure can be applied to the soil near the rows once every week or ten days, care being exercised not to make applications too strong. Frequent thorough waterings of the soil in the beds at evenings is a wonderful stimulant, and gives the blooms much greater sun resistance and lasting qualities. Keep the soil well worked and frequently, especially early the next forenoon after being watered the previous evening. Always keep a soil crust from forming in the rows among the plants. After blooming spikes begin to show cultivate only about two inches deep. Do not work soil when wet, Scotch Soot applied to the soil when plants are half grown, intensifies deep shades. Weak lime water applied to soil shortly before blooms begin to open is said to clarify the more delicate shades. Prepared ground bone, or other high-grade fertilizers, can be sprinkled over the soil near the plants, between rows, and raked in to good purpose. Nitrate of Soda (about a tablespoonful to two gallons of water for each dozen plants) applied to the soil near the rows once every week or ten days after buds begin to show color, is very beneficial. Or: Sprinkle the pulverized Nitrate of Soda over the soil, rake in and water.

IMPORTANT. Varieties vary in different soils and seasons. Some do their best only in alternate years. To grow magnificent Gladioli, have soil fertile and mellow. Cultivate thoroughly and often. Water abundantly, and never leave a crust to form over the soil between rows or near the plants.

STAKING. Slender stakes of wood or bamboo painted a light green make good support for the spikes at blooming time. Where horizontal lines are used they should be fastened to end posts firmly set and the wires tightly stretched. A few more stakes should also be placed at intervals along the lines. Use strips of cloth instead of cord to tie the blooming spikes to their support. Painted white pine labels, copper wired, are very suitable for marking plants. Any seedsman can furnish these.

BLOOMING. For best results, cut the spikes when the first flowers open, and let them bloom in the house. Each morning remove wilted blossoms, cut off a little of the stems, cutting them with a long slope (not square across), rinse and give fresh water. Placing them in a cool cellar over night greatly refreshes and improves them.

Many beautiful designs can be made, either with tips of spikes or single blossoms, in rounds, ovals, fans, etc., in plates, pans, vases or shallow dishes and other receptacles. Elegant floral baskets can be arranged with fern leaves, florists' asparagus, the common garden asparagus, and various other flowers, foliage, etc.

If good bulbs are desired for the following year, four to five strong leaves should be left on the plants when cutting the spikes.

STORING. Bulbs should be dug before the plants are too ripe. In the fall, before hard frosts, dig the bulbs and cut off the tops. Dry well in the air and sunshine, cure thoroughly in-door for a few weeks, then store in a cool, dry cellar. A covering of sand while in storage (after bulbs are well cured) is a protection against frost or dampness. Keep as near 40 degrees as possible. Dampness in storage tends to develop disease.

It is best not to place bulbs more than four inches deep while in storage. Florists' flats are very suitable for this purpose. A splendid crate is made with four-inch boards, using plastering lath closely laid for bottoms. Make in sizes of two feet square, or two by three feet, etc., as may be best suited to your purpose.

HOW TO GROW PRIZE WINNING GLADIOLI BLOOMS

Y7 E often receive inquiries as how to grow giant flowers and plants of Gladioli. such as are sometimes seen at exhibitions and described in catalogs. Gladioli may be grown to extremely large sizes if forced by unnatural methods, if soil and culture are of the best. If possible, the place where the bulbs are to grow should be heavily enriched the preceding year by a liberal application of the richest barn manures, well forked in, in the fall. In addition, a good coat of the same materials should be spread over the spaded surface, in order that its strength may be well leached into the soil during the winter and early spring, Some growers also add pulverized sheep manure by scattering along the trenches, before placing the bulbs, then cover the bulbs (or corms) an inch or two and give an additional application overwhich the remaining soil is placed. (10 to 25 per cent. of powdered wood charcoal added to the shredded sheep manure is a valuable addition.) Complete fertilizers with a good per cent, of potash may be used to additional advantage. Do not set bulbs too thickly. If largest plants and flowers are desired, rows should be two feet or more apart, and bulbs a foot or over apart in the rows. After the plants are well grown, about the time the "spikes begin to shoot," and the soil is well warmed by the sun, a mulch of well prepared stable manure should be spread over the bed between the rows. At all times this mulch should be abundantly watered to get the benefit of the fertility and hold plenty of moisture. Never allow the soil to become the least bit dry. By carefully making application of the methods and following the other cultural advice given above, you can learn to grow "Giant Gladioli" with blooms "six to seven inches across and spikes five to eight feet tall." (See testimonial of Mr. C. M. Scrace, Los Angeles, Cal.)

CAUTION. Do not think that all the above methods are recommended to be used at one time in any one case. Very stimulating or over-high culture does not produce as good bulbs for the following year as those produced with average care. Never lose sight of the fact that the three greatest essentials to successful growing of Gladioli, as of almost everything else, are good soil, good and frequent cultivation and plenty of water at all times, Over strong chemical fertilizers are apt to burn the foliage.

BULBS AFFECTED WITH DISEASE or scab may be benefited as follows: Soak bulbs in a bichloride of mercury (corrosive sublimate) solution of fifteen grains to each gallon of water for twenty minutes. Or: Use two ounces of corrosive sublimate dissolved in fifteen gallons of water and soak for two hours (for smaller amounts in proportion). Or: Use one ounce of 40% formaldehyde to each four gallons of water and immerse bulbs for twenty minutes to one hour. I have left bulbs immersed for longer periods in even stronger solutions, but care must be exercised not to make the treatmnt too severe for fear of injury. These treatments are generally employed just before planting. Sometimes it is best to remove the peel before bulbs are treated.

